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PHASES OF THE MOON 1800 – 1959

by

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This *Circular* contains the phases of the moon for the years 1800 – 1959.

These phases of the moon have been computed using an abridged form of E. W. Brown's Lunar Theory (*Astronomical Papers,* Vol. XV, Pt. 1, 1953) and Newcomb's Theory of the Sun (*Astronomical Papers,* Vol. VI, Pt. 1, 1895). The times of the phases so computed are expressed in Ephemeris Time, rather than Universal Time as used prior to 1960. Therefore, these times may differ by as much as two minutes from the times printed annually in the *American Ephemeris and Nautical Almanac.*

U. S. NAVAL OBSERVATORY
MAR 10 1967
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PHASES OF THE MOON

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1800							
JAN.	25 03 21	JAN.	2 22 57	JAN.	11 02 20	JAN.	18 07 52
FEB.	23 17 08	FEB.	1 20 40	FEB.	9 17 25	FEB.	16 15 49
MAR.	25 08 21	MAR.	3 18 00	MAR.	11 06 00	MAR.	17 23 16
APR.	24 00 31	APR.	2 12 48	APR.	9 16 18	APR.	16 07 09
MAY	23 16 40	MAY	2 04 03	MAY	9 00 45	MAY	15 16 28
JUNE	22 07 56	MAY	31 15 43	JUNE	7 07 59	JUNE	14 04 02
JULY	21 21 47	JUNE	30 00 20	JULY	6 14 56	JULY	13 18 13
AUG.	20 10 21	JULY	29 06 45	AUG.	4 22 45	AUG.	12 10 48
SEPT.	18 21 57	AUG.	27 12 03	SEPT.	3 08 41	SEPT.	11 05 06
OCT.	18 08 58	SEPT.	25 17 31	OCT.	2 21 36	OCT.	11 00 00
NOV.	16 19 35	OCT.	25 00 33	NOV.	1 13 43	NOV.	9 18 23
DEC.	16 06 02	NOV.	23 10 32	DEC.	1 08 15	DEC.	9 11 07
		DEC.	23 00 17	DEC.	31 03 41		
1801							
JAN.	14 16 35	JAN.	21 17 35	JAN.	29 22 29	JAN.	8 01 13
FEB.	13 03 37	FEB.	20 13 10	FEB.	28 15 20	FEB.	6 12 08
MAR.	14 15 30	MAR.	22 09 21	MAR.	30 05 23	MAR.	7 20 12
APR.	13 04 22	APR.	21 04 30	APR.	28 16 29	APR.	6 02 28
MAY	12 18 06	MAY	20 21 32	MAY	28 00 59	MAY	5 08 18
JUNE	11 08 32	JUNE	19 11 46	JUNE	26 07 55	JUNE	3 15 04
JULY	10 23 28	JULY	18 23 07	JULY	25 14 30	JULY	2 23 52
AUG.	9 14 38	AUG.	17 07 49	AUG.	23 21 57	AUG.	1 11 26
SEPT.	8 05 39	SEPT.	15 14 43	SEPT.	22 07 18	AUG.	31 02 04
OCT.	7 19 57	OCT.	14 21 00	OCT.	21 19 10	SEPT.	29 19 42
NOV.	6 09 08	NOV.	13 03 58	NOV.	20 09 49	OCT.	29 15 39
DEC.	5 21 08	DEC.	12 12 48	DEC.	20 03 01	NOV.	28 12 34
						DEC.	28 08 22
1802							
JAN.	4 08 13	JAN.	11 00 12	JAN.	18 22 00	JAN.	27 01 11
FEB.	2 18 48	FEB.	9 14 16	FEB.	17 17 23	FEB.	25 14 02
MAR.	4 05 07	MAR.	11 06 36	MAR.	19 11 24	MAR.	26 23 12
APR.	2 15 20	APR.	10 00 27	APR.	18 02 35	APR.	25 05 42
MAY	2 01 40	MAY	9 18 54	MAY	17 14 33	MAY	24 10 52
MAY	31 12 41	JUNE	8 12 48	JUNE	15 23 51	JUNE	22 16 02
JUNE	30 01 02	JULY	8 05 03	JULY	15 07 34	JULY	21 22 28
JULY	29 15 11	AUG.	6 19 02	AUG.	13 14 53	AUG.	20 07 18
AUG.	28 07 03	SEPT.	5 06 41	SEPT.	11 22 43	SEPT.	18 19 31
SEPT.	26 23 49	OCT.	4 16 25	OCT.	11 07 46	OCT.	18 11 43
OCT.	26 16 20	NOV.	3 00 55	NOV.	9 18 32	NOV.	17 07 35
NOV.	25 07 44	DEC.	2 08 54	DEC.	9 07 35	DEC.	17 05 30
DEC.	24 21 41	DEC.	31 17 07				
1803							
JAN.	23 10 11	JAN.	30 02 15	JAN.	7 23 08	JAN.	16 03 03
FEB.	21 21 18	FEB.	28 13 01	FEB.	6 16 52	FEB.	14 21 59
MAR.	23 07 02	MAR.	30 01 50	MAR.	8 11 35	MAR.	16 13 08
APR.	21 15 40	APR.	28 16 46	APR.	7 05 27	APR.	15 00 23
MAY	20 23 54	MAY	28 09 21	MAY	6 21 11	MAY	14 08 16
JUNE	19 08 47	JUNE	27 02 45	JUNE	5 10 23	JUNE	12 13 48
JULY	18 19 23	JULY	26 19 58	JULY	4 21 24	JULY	11 18 15
AUG.	17 08 25	AUG.	25 12 20	AUG.	3 06 53	AUG.	9 23 05
SEPT.	15 23 54	SEPT.	24 03 22	SEPT.	1 15 33	SEPT.	8 05 52
OCT.	15 17 10	OCT.	23 16 46	OCT.	1 00 03	OCT.	7 16 01
NOV.	14 11 11	NOV.	22 04 16	OCT.	30 09 02	NOV.	6 06 24
DEC.	14 04 53	DEC.	21 13 51	NOV.	28 19 14	DEC.	6 00 50
				DEC.	28 07 13		

1804

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
												JAN.	4	21	58
JAN.	12	21	13	JAN.	19	21	58	JAN.	26	21	12	FEB.	3	19	44
FEB.	11	11	24	FEB.	18	05	36	FEB.	25	12	54	MAR.	4	16	05
MAR.	11	23	02	MAR.	18	13	51	MAR.	26	05	28	APR.	3	09	28
APR.	10	08	18	APR.	16	23	35	APR.	24	22	00	MAY	2	23	05
MAY	9	15	58	MAY	16	11	16	MAY	24	13	49	JUNE	1	08	54
JUNE	7	23	05	JUNE	15	00	59	JUNE	23	04	25	JUNE	30	15	38
JULY	7	06	49	JULY	14	16	34	JULY	22	17	32	JULY	29	20	33
AUG.	5	16	05	AUG.	13	09	44	AUG.	21	05	07	AUG.	28	01	14
SEPT.	4	03	37	SEPT.	12	03	54	SEPT.	19	15	26	SEPT.	26	07	13
OCT.	3	17	47	OCT.	11	22	06	OCT.	19	01	04	OCT.	25	15	55
NOV.	2	10	36	NOV.	10	15	04	NOV.	17	10	48	NOV.	24	04	08
DEC.	2	05	27	DEC.	10	05	39	DEC.	16	21	15	DEC.	23	20	01

1805

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	1	00	58	JAN.	8	17	20	JAN.	15	08	40	JAN.	22	14	57
JAN.	30	19	13	FEB.	7	02	25	FEB.	13	20	58	FEB.	21	11	37
MAR.	1	10	43	MAR.	8	09	49	MAR.	15	09	59	MAR.	23	08	15
MAR.	30	22	58	APR.	6	16	35	APR.	13	23	45	APR.	22	03	01
APR.	29	08	30	MAY	5	23	43	MAY	13	14	21	MAY	21	18	35
MAY	28	16	15	JUNE	4	08	08	JUNE	12	05	40	JUNE	20	06	36
JUNE	26	23	17	JULY	3	18	35	JULY	11	21	08	JULY	19	15	33
JULY	26	06	29	AUG.	2	07	46	AUG.	10	11	57	AUG.	17	22	28
AUG.	24	14	40	AUG.	31	23	59	SEPT.	9	01	35	SEPT.	16	04	29
SEPT.	23	00	42	SEPT.	30	18	54	OCT.	8	14	01	OCT.	15	10	49
OCT.	22	13	26	OCT.	30	15	07	NOV.	7	01	40	NOV.	13	18	31
NOV.	21	05	23	NOV.	29	10	51	DEC.	6	12	59	DEC.	13	04	32
DEC.	21	00	07	DEC.	29	04	23								

1806

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
								JAN.	5	00	08	JAN.	11	17	29
JAN.	19	20	05	JAN.	27	18	46	FEB.	3	10	58	FEB.	10	09	32
FEB.	18	15	04	FEB.	26	05	50	MAR.	4	21	28	MAR.	12	03	59
MAR.	20	07	32	MAR.	27	13	59	APR.	3	08	01	APR.	10	23	25
APR.	18	20	56	APR.	25	20	06	MAY	2	19	17	MAY	10	18	09
MAY	18	07	39	MAY	25	01	20	JUNE	1	07	52	JUNE	9	11	00
JUNE	16	16	21	JUNE	23	07	06	JUNE	30	21	56	JULY	9	01	24
JULY	15	23	47	JULY	22	14	47	JULY	30	13	07	AUG.	7	13	27
AUG.	14	06	48	AUG.	21	01	37	AUG.	29	04	47	SEPT.	5	23	26
SEPT.	12	14	24	SEPT.	19	16	14	SEPT.	27	20	23	OCT.	5	07	49
OCT.	11	23	38	OCT.	19	10	27	OCT.	27	11	29	NOV.	3	15	13
NOV.	10	11	27	NOV.	18	07	07	NOV.	26	01	50	DEC.	2	22	36
DEC.	10	02	18	DEC.	18	04	29	DEC.	25	15	01				

1807

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
												JAN.	1	07	02
JAN.	8	19	44	JAN.	17	00	37	JAN.	24	02	45	JAN.	30	17	32
FEB.	7	14	30	FEB.	15	17	52	FEB.	22	13	01	MAR.	1	06	33
MAR.	9	09	04	MAR.	17	07	15	MAR.	23	22	17	MAR.	30	21	50
APR.	8	02	10	APR.	15	16	40	APR.	22	07	14	APR.	29	14	37
MAY	7	17	04	MAY	14	22	57	MAY	21	10	39	MAY	29	08	01
JUNE	6	05	23	JUNE	13	03	30	JUNE	20	03	11	JUNE	28	01	19
JULY	5	15	21	JULY	12	07	59	JULY	19	15	19	JULY	27	17	53
AUG.	3	23	34	AUG.	10	13	57	AUG.	18	05	15	AUG.	26	09	07
SEPT.	2	07	06	SEPT.	8	22	44	SEPT.	16	21	02	SEPT.	24	22	28
OCT.	1	15	05	OCT.	8	11	11	OCT.	16	14	16	OCT.	24	09	42
OCT.	31	00	27	NOV.	7	03	29	NOV.	15	08	00	NOV.	22	19	03
NOV.	29	11	47	DEC.	6	23	13	DEC.	15	00	51	DEC.	22	03	16
DEC.	29	01	12												

PHASES OF THE MOON

1808

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
		JAN.	5 21 02	JAN.	13 15 41	JAN.	20 11 19
JAN.	27 16 23	FEB.	4 18 46	FEB.	12 04 09	FEB.	18 20 02
FEB.	26 08 57	MAR.	5 14 07	MAR.	12 14 32	MAR.	19 06 02
MAR.	27 02 17	APR.	4 05 31	APR.	10 23 28	APR.	17 17 36
APR.	25 19 26	MAY	3 16 41	MAY	10 07 35	MAY	17 06 58
MAY	25 11 17	JUNE	2 00 22	JUNE	8 15 34	JUNE	15 22 09
JUNE	24 00 58	JULY	1 05 49	JULY	8 00 09	JULY	15 14 59
JULY	23 12 26	JULY	30 10 28	AUG.	6 10 13	AUG.	14 08 46
AUG.	21 22 15	AUG.	28 15 42	SEPT.	4 22 42	SEPT.	13 02 28
SEPT.	20 07 22	SEPT.	26 22 48	OCT.	4 14 08	OCT.	12 18 55
OCT.	19 16 42	OCT.	26 08 55	NOV.	3 08 12	NOV.	11 09 26
NOV.	18 02 42	NOV.	24 22 51	DEC.	3 03 27	DEC.	10 21 47
DEC.	17 13 33	DEC.	24 16 44				

1809

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
				JAN.	1 21 58	JAN.	9 07 59
JAN.	16 01 19	JAN.	23 13 35	JAN.	31 14 22	FEB.	7 16 28
FEB.	14 14 13	FEB.	22 11 16	MAR.	2 04 09	MAR.	8 23 54
MAR.	16 04 28	MAR.	24 07 24	MAR.	31 15 27	APR.	7 07 11
APR.	14 19 57	APR.	23 00 26	APR.	30 00 38	MAY	6 15 23
MAY	14 12 00	MAY	22 13 51	MAY	29 08 16	JUNE	5 01 27
JUNE	13 03 41	JUNE	21 00 00	JUNE	27 15 09	JULY	4 14 05
JULY	12 18 18	JULY	20 07 32	JULY	26 22 20	AUG.	3 05 26
AUG.	11 07 39	AUG.	18 13 24	AUG.	25 07 05	SEPT.	1 23 03
SEPT.	9 19 57	SEPT.	16 18 46	SEPT.	23 18 29	OCT.	1 18 00
OCT.	9 07 29	OCT.	16 00 58	OCT.	23 09 09	OCT.	31 13 06
NOV.	7 18 33	NOV.	14 09 25	NOV.	22 02 43	NOV.	30 07 06
DEC.	7 05 13	DEC.	13 21 12	DEC.	21 21 58	DEC.	29 22 50

1810

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	5 15 42	JAN.	12 12 41	JAN.	20 17 18	JAN.	28 11 27
FEB.	4 02 21	FEB.	11 07 06	FEB.	19 11 13	FEB.	26 20 50
MAR.	5 13 35	MAR.	13 02 56	MAR.	21 02 40	MAR.	28 03 44
APR.	4 01 39	APR.	11 22 33	APR.	19 15 08	APR.	26 09 25
MAY	3 14 42	MAY	11 16 38	MAY	19 00 46	MAY	25 15 20
JUNE	2 04 34	JUNE	10 08 20	JUNE	17 08 19	JUNE	23 22 48
JULY	1 19 09	JULY	9 21 16	JULY	16 14 56	JULY	23 08 45
JULY	31 10 16	AUG.	8 07 26	AUG.	14 21 50	AUG.	21 21 45
AUG.	30 01 36	SEPT.	6 15 22	SEPT.	13 06 13	SEPT.	20 13 58
SEPT.	28 16 37	OCT.	5 22 03	OCT.	12 16 52	OCT.	20 09 02
OCT.	28 06 42	NOV.	4 04 42	NOV.	11 06 13	NOV.	19 05 54
NOV.	26 19 31	DEC.	3 12 33	DEC.	10 22 12	DEC.	19 02 43
DEC.	26 07 09						

1811

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
		JAN.	1 22 35	JAN.	9 16 24	JAN.	17 21 22
JAN.	24 17 58	JAN.	31 11 09	FEB.	8 11 41	FEB.	16 12 18
FEB.	23 04 17	MAR.	2 02 08	MAR.	10 06 29	MAR.	17 23 11
MAR.	24 14 19	MAR.	31 18 59	APR.	8 23 05	APR.	16 06 48
APR.	23 00 17	APR.	30 13 00	MAY	8 12 35	MAY	15 12 22
MAY	22 10 39	MAY	30 07 09	JUNE	6 23 05	JUNE	13 17 15
JUNE	20 22 03	JUNE	29 00 21	JULY	6 07 30	JULY	12 22 47
JULY	20 11 10	JULY	28 15 40	AUG.	4 14 59	AUG.	11 06 12
AUG.	19 02 16	AUG.	27 04 45	SEPT.	2 22 35	SEPT.	9 16 35
SEPT.	17 18 52	SEPT.	25 15 41	OCT.	2 07 05	OCT.	9 06 48
OCT.	17 11 54	OCT.	25 01 01	OCT.	31 17 04	NOV.	8 01 00
NOV.	16 04 13	NOV.	23 09 23	NOV.	30 04 58	DEC.	7 22 16
DEC.	15 19 07	DEC.	22 17 29	DEC.	29 19 14		

NEW MOON	FIRST QUARTER	FULL MOON	LAST QUARTER
D H M	D H M	D H M	D H M

1812

			JAN. 6 20 24
JAN. 14 08 27	JAN. 21 02 00	JAN. 28 11 51	FEB. 5 16 53
FEB. 12 20 15	FEB. 19 11 41	FEB. 27 06 04	MAR. 6 09 59
MAR. 13 06 32	MAR. 19 23 07	MAR. 28 00 20	APR. 4 23 08
APR. 11 15 28	APR. 18 12 40	APR. 26 17 06	MAY 4 08 34
MAY 10 23 35	MAY 18 04 12	MAY 26 07 31	JUNE 2 15 08
JUNE 9 07 49	JUNE 16 21 07	JUNE 24 19 35	JULY 1 19 56
JULY 8 17 18	JULY 16 14 30	JULY 24 05 52	JULY 31 00 24
AUG. 7 05 01	AUG. 15 07 32	AUG. 22 15 02	AUG. 29 06 02
SEPT. 5 19 20	SEPT. 13 23 34	SEPT. 20 23 44	SEPT. 27 14 22
OCT. 5 11 58	OCT. 13 14 12	OCT. 20 08 36	OCT. 27 02 36
NOV. 4 05 57	NOV. 12 03 00	NOV. 18 18 15	NOV. 25 19 07
DEC. 4 00 10	DEC. 11 13 44	DEC. 18 05 20	DEC. 25 15 06

1813

JAN. 2 17 27	JAN. 9 22 36	JAN. 16 18 15	JAN. 24 12 47
FEB. 1 08 50	FEB. 8 06 17	FEB. 15 08 58	FEB. 23 09 58
MAR. 2 21 43	MAR. 9 13 54	MAR. 17 00 57	MAR. 25 04 53
APR. 1 07 59	APR. 7 22 30	APR. 15 17 19	APR. 23 20 22
APR. 30 16 11	MAY 7 08 50	MAY 15 09 22	MAY 23 08 04
MAY 29 23 18	JUNE 5 21 14	JUNE 14 00 32	JUNE 21 16 18
JUNE 28 06 29	JULY 5 11 44	JULY 13 14 30	JULY 20 22 04
JULY 27 14 49	AUG. 4 04 07	AUG. 12 03 01	AUG. 19 02 47
AUG. 26 01 09	SEPT. 2 22 00	SEPT. 10 14 11	SEPT. 17 08 03
SEPT. 24 14 03	OCT. 2 16 36	OCT. 10 00 19	OCT. 16 15 20
OCT. 24 05 40	NOV. 1 10 41	NOV. 8 10 08	NOV. 15 01 45
NOV. 22 23 44	DEC. 1 02 53	DEC. 7 20 17	DEC. 14 15 48
DEC. 22 19 14	DEC. 30 16 13		

1814

		JAN. 6 07 14	JAN. 13 09 12
JAN. 21 14 24	JAN. 29 02 36	FEB. 4 19 00	FEB. 12 04 59
FEB. 20 07 24	FEB. 27 10 39	MAR. 6 07 26	MAR. 14 01 39
MAR. 21 21 13	MAR. 28 17 26	APR. 4 20 32	APR. 12 21 24
APR. 20 07 54	APR. 27 00 03	MAY 4 10 26	MAY 12 14 37
MAY 19 16 19	MAY 26 07 28	JUNE 3 01 13	JUNE 11 04 26
JUNE 17 23 32	JUNE 24 16 34	JULY 2 16 37	JULY 10 14 59
JULY 17 06 32	JULY 24 04 10	AUG. 1 07 56	AUG. 8 22 59
AUG. 15 14 09	AUG. 22 18 48	AUG. 30 22 25	SEPT. 7 05 33
SEPT. 13 23 15	SEPT. 21 12 34	SEPT. 29 11 44	OCT. 6 11 47
OCT. 13 10 36	OCT. 21 08 33	OCT. 29 00 00	NOV. 4 18 48
NOV. 12 01 00	NOV. 20 05 01	NOV. 27 11 40	DEC. 4 03 35
DEC. 11 18 30	DEC. 20 00 03	DEC. 26 23 00	

1815

			JAN. 2 14 56
JAN. 10 14 04	JAN. 18 16 13	JAN. 25 10 00	FEB. 1 05 15
FEB. 9 09 45	FEB. 17 04 59	FEB. 23 20 30	MAR. 2 22 21
MAR. 11 03 31	MAR. 18 14 28	MAR. 25 06 43	APR. 1 17 11
APR. 9 18 22	APR. 16 21 21	APR. 23 17 16	MAY 1 12 14
MAY 9 06 17	MAY 16 02 42	MAY 23 04 52	MAY 31 06 02
JUNE 7 15 53	JUNE 14 07 53	JUNE 21 18 01	JUNE 29 21 45
JULY 6 23 52	JULY 13 14 17	JULY 21 08 39	JULY 29 11 08
AUG. 5 07 03	AUG. 11 23 19	AUG. 20 00 14	AUG. 27 22 23
SEPT. 3 14 21	SEPT. 10 11 58	SEPT. 18 16 08	SEPT. 26 07 49
OCT. 2 22 45	OCT. 10 04 32	OCT. 18 07 49	OCT. 25 15 53
NOV. 1 09 18	NOV. 9 00 17	NOV. 16 22 53	NOV. 23 23 19
NOV. 30 22 40	DEC. 8 21 42	DEC. 16 12 54	DEC. 23 07 08
DEC. 30 14 54			

1816

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
				JAN.	7	18	47	JAN.	15	01	27	JAN.	21	16	25
JAN.	29	09	02	FEB.	6	13	43	FEB.	13	12	23	FEB.	20	03	55
FEB.	28	03	43	MAR.	7	05	06	MAR.	13	21	56	MAR.	20	17	49
MAR.	28	21	31	APR.	5	16	25	APR.	12	06	43	APR.	19	09	37
APR.	27	13	27	MAY	5	00	05	MAY	11	15	35	MAY	19	02	31
MAY	27	03	02	JUNE	3	05	16	JUNE	10	01	17	JUNE	17	19	49
JUNE	25	14	11	JULY	2	09	31	JULY	9	12	26	JULY	17	12	51
JULY	24	23	16	JULY	31	14	30	AUG.	8	01	23	AUG.	16	05	03
AUG.	23	07	10	AUG.	29	21	43	SEPT.	6	16	20	SEPT.	14	19	42
SEPT.	21	14	57	SEPT.	28	08	16	OCT.	6	09	07	OCT.	14	08	22
OCT.	20	23	42	OCT.	27	22	42	NOV.	5	03	00	NOV.	12	18	53
NOV.	19	10	09	NOV.	26	16	53	DEC.	4	20	42	DEC.	12	03	46
DEC.	18	22	33	DEC.	26	13	52								

1817

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
								JAN.	3	12	48	JAN.	10	11	50
JAN.	17	12	48	JAN.	25	11	55	FEB.	2	02	30	FEB.	8	20	01
FEB.	16	04	32	FEB.	24	08	42	MAR.	3	13	47	MAR.	10	05	04
MAR.	17	21	19	MAR.	26	02	07	APR.	1	23	12	APR.	8	15	30
APR.	16	14	26	APR.	24	15	21	MAY	1	07	29	MAY	8	03	36
MAY	16	06	55	MAY	24	00	38	MAY	30	15	17	JUNE	6	17	35
JUNE	14	21	44	JUNE	22	07	05	JUNE	28	23	20	JULY	6	09	30
JULY	14	10	23	JULY	21	12	02	JULY	28	08	28	AUG.	5	02	56
AUG.	12	21	05	AUG.	19	16	53	AUG.	26	19	38	SEPT.	3	21	00
SEPT.	11	06	40	SEPT.	17	22	58	SEPT.	25	09	39	OCT.	3	14	32
OCT.	10	16	03	OCT.	17	07	30	OCT.	25	02	39	NOV.	2	06	26
NOV.	9	01	52	NOV.	15	19	29	NOV.	23	21	42	DEC.	1	20	10
DEC.	8	12	25	DEC.	15	11	25	DEC.	23	16	58	DEC.	31	07	36

1818

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	6	23	42	JAN.	14	06	53	JAN.	22	10	37	JAN.	29	16	55
FEB.	5	11	52	FEB.	13	04	17	FEB.	21	01	43	FEB.	28	00	41
MAR.	7	01	10	MAR.	15	01	17	MAR.	22	14	08	MAR.	29	07	42
APR.	5	15	46	APR.	13	19	52	APR.	21	00	13	APR.	27	15	02
MAY	5	07	22	MAY	13	11	04	MAY	20	08	25	MAY	26	23	45
JUNE	3	23	10	JUNE	11	22	51	JUNE	18	15	29	JUNE	25	10	48
JULY	3	14	22	JULY	11	07	43	JULY	17	22	20	JULY	25	00	40
AUG.	2	04	28	AUG.	9	14	28	AUG.	16	06	09	AUG.	23	17	13
AUG.	31	17	30	SEPT.	7	20	08	SEPT.	14	16	10	SEPT.	22	11	49
SEPT.	30	05	39	OCT.	7	01	53	OCT.	14	05	16	OCT.	22	07	16
OCT.	29	17	13	NOV.	5	09	08	NOV.	12	21	33	NOV.	21	02	15
NOV.	28	04	15	DEC.	4	19	09	DEC.	12	16	13	DEC.	20	19	30
DEC.	27	14	54												

1819

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
				JAN.	3	08	44	JAN.	11	11	44	JAN.	19	09	53
JAN.	26	01	22	FEB.	2	01	38	FEB.	10	06	30	FEB.	17	20	53
FEB.	24	12	07	MAR.	3	20	42	MAR.	11	23	13	MAR.	19	04	49
MAR.	25	23	29	APR.	2	16	22	APR.	10	13	07	APR.	17	10	47
APR.	24	11	45	MAY	2	11	10	MAY	10	00	02	MAY	16	16	13
MAY	24	00	58	JUNE	1	04	05	JUNE	8	08	29	JUNE	14	22	33
JUNE	22	15	02	JUNE	30	18	31	JULY	7	15	24	JULY	14	06	59
JULY	22	05	53	JULY	30	06	14	AUG.	5	22	04	AUG.	12	18	18
AUG.	20	21	17	AUG.	28	15	28	SEPT.	4	05	39	SEPT.	11	08	55
SEPT.	19	12	47	SEPT.	26	22	55	OCT.	3	15	12	OCT.	11	02	43
OCT.	19	03	41	OCT.	26	05	38	NOV.	2	03	15	NOV.	9	23	03
NOV.	17	17	26	NOV.	24	12	52	DEC.	1	18	01	DEC.	9	20	21
DEC.	17	05	49	DEC.	23	21	43	DEC.	31	11	09				

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1820							
						JAN.	8 16 30
JAN.	15 17 03	JAN.	22 08 53	JAN.	30 05 58	FEB.	7 09 29
FEB.	14 03 30	FEB.	20 22 28	FEB.	29 01 06	MAR.	7 22 22
MAR.	14 13 30	MAR.	21 14 09	MAR.	29 18 50	APR.	6 07 26
APR.	12 23 13	APR.	20 07 20	APR.	28 09 51	MAY	5 13 47
MAY	12 09 04	MAY	20 01 19	MAY	27 21 46	JUNE	3 18 44
JUNE	10 19 38	JUNE	18 19 03	JUNE	26 07 06	JULY	2 23 41
JULY	10 07 42	JULY	18 11 29	JULY	25 15 00	AUG.	1 05 55
AUG.	8 21 46	AUG.	17 01 56	AUG.	23 22 33	AUG.	30 14 39
SEPT.	7 13 50	SEPT.	15 14 14	SEPT.	22 06 41	SEPT.	29 02 53
OCT.	7 07 03	OCT.	15 00 38	OCT.	21 16 01	OCT.	28 19 11
NOV.	6 00 07	NOV.	13 09 41	NOV.	20 03 00	NOV.	27 15 13
DEC.	5 16 02	DEC.	12 17 59	DEC.	19 16 03	DEC.	27 13 17
1821							
JAN.	4 06 17	JAN.	11 02 13	JAN.	18 07 26	JAN.	26 10 55
FEB.	2 18 53	FEB.	9 11 04	FEB.	17 00 47	FEB.	25 05 50
MAR.	4 05 50	MAR.	10 21 18	MAR.	18 19 02	MAR.	26 20 57
APR.	2 15 14	APR.	9 09 26	APR.	17 12 31	APR.	25 08 07
MAY	1 23 29	MAY	8 23 39	MAY	17 04 02	MAY	24 16 00
MAY	31 07 19	JUNE	7 15 43	JUNE	15 17 14	JUNE	22 21 32
JUNE	29 15 54	JULY	7 08 53	JULY	15 04 25	JULY	22 02 01
JULY	29 02 19	AUG.	6 02 16	AUG.	13 14 13	AUG.	20 06 53
AUG.	27 15 18	SEPT.	4 19 06	SEPT.	11 23 18	SEPT.	18 13 44
SEPT.	26 06 59	OCT.	4 10 50	OCT.	11 08 13	OCT.	17 23 56
OCT.	26 00 37	NOV.	3 00 57	NOV.	9 17 35	NOV.	16 14 20
NOV.	24 19 04	DEC.	2 13 01	DEC.	9 03 57	DEC.	16 08 45
DEC.	24 13 06	DEC.	31 22 54				
1822							
				JAN.	7 15 53	JAN.	15 05 46
JAN.	23 05 38	JAN.	30 07 03	FEB.	6 05 35	FEB.	14 03 21
FEB.	21 19 48	FEB.	28 14 25	MAR.	7 20 45	MAR.	15 23 28
MAR.	23 07 14	MAR.	29 22 09	APR.	6 12 46	APR.	14 16 41
APR.	21 16 15	APR.	28 07 14	MAY	6 04 48	MAY	14 06 18
MAY	20 23 39	MAY	27 18 18	JUNE	4 20 21	JUNE	12 16 14
JUNE	19 06 33	JUNE	26 07 31	JULY	4 10 59	JULY	11 23 13
JULY	18 14 07	JULY	25 22 53	AUG.	3 00 24	AUG.	10 04 24
AUG.	16 23 22	AUG.	24 16 08	SEPT.	1 12 26	SEPT.	8 09 20
SEPT.	15 10 58	SEPT.	23 10 43	SEPT.	30 23 17	OCT.	7-15 32
OCT.	15 01 19	OCT.	23 05 33	OCT.	30 09 25	NOV.	6 00 20
NOV.	13 18 21	NOV.	21 23 10	NOV.	28 19 31	DEC.	5 12 33
DEC.	13 13 25	DEC.	21 14 15	DEC.	28 06 05		
1823							
						JAN.	4 04 15
JAN.	12 09 02	JAN.	20 02 11	JAN.	26 17 24	FEB.	2 22 48
FEB.	11 03 19	FEB.	18 11 17	FEB.	25 05 19	MAR.	4 19 01
MAR.	12 18 43	MAR.	19 18 27	MAR.	26 17 47	APR.	3 15 14
APR.	11 06 49	APR.	18 00 49	APR.	25 06 57	MAY	3 09 45
MAY	10 16 09	MAY	17 07 28	MAY	24 21 03	JUNE	2 01 20
JUNE	8 23 47	JUNE	15 15 23	JUNE	23 12 05	JULY	1 13 34
JULY	8 06 45	JULY	15 01 27	JULY	23 03 35	JULY	30 22 56
AUG.	6 13 59	AUG.	13 14 25	AUG.	21 18 44	AUG.	29 06 19
SEPT.	4 22 18	SEPT.	12 06 42	SEPT.	20 08 54	SEPT.	27 12 48
OCT.	4 08 30	OCT.	12 01 53	OCT.	19 21 57	OCT.	26 19 28
NOV.	2 21 24	NOV.	10 22 37	NOV.	18 10 07	NOV.	25 03 21
DEC.	2 13 26	DEC.	10 18 48	DEC.	17 21 46	DEC.	24 13 18

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
1824															
JAN.	1	08	10	JAN.	9	12	43	JAN.	16	09	00	JAN.	23	01	58
JAN.	31	04	02	FEB.	8	03	17	FEB.	14	19	39	FEB.	21	17	30
FEB.	29	22	50	MAR.	8	14	21	MAR.	15	05	46	MAR.	22	11	18
MAR.	30	15	06	APR.	6	22	21	APR.	13	15	47	APR.	21	06	10
APR.	29	04	22	MAY	6	04	11	MAY	13	02	30	MAY	21	00	34
MAY	28	15	00	JUNE	4	09	07	JUNE	11	14	38	JUNE	19	17	22
JUNE	26	23	42	JULY	3	14	35	JULY	11	04	26	JULY	19	08	04
JULY	26	07	15	AUG.	1	22	02	AUG.	9	19	38	AUG.	17	20	36
AUG.	24	14	30	AUG.	31	08	43	SEPT.	8	11	37	SEPT.	16	07	13
SEPT.	22	22	21	SEPT.	29	23	22	OCT.	8	03	44	OCT.	15	16	12
OCT.	22	07	49	OCT.	29	17	46	NOV.	6	19	26	NOV.	14	00	03
NOV.	20	19	47	NOV.	28	14	43	DEC.	6	10	17	DEC.	13	07	39
DEC.	20	10	38	DEC.	28	12	20								
1825															
								JAN.	4	23	45	JAN.	11	16	02
JAN.	19	03	53	JAN.	27	08	37	FEB.	3	11	30	FEB.	10	02	11
FEB.	17	22	19	FEB.	26	01	55	MAR.	4	21	34	MAR.	11	14	37
MAR.	19	16	30	MAR.	27	15	15	APR.	3	06	26	APR.	10	05	11
APR.	18	09	19	APR.	26	00	36	MAY	2	14	57	MAY	9	21	17
MAY	18	00	02	MAY	25	06	48	MAY	31	23	55	JUNE	8	14	15
JUNE	16	12	23	JUNE	23	11	16	JUNE	30	10	07	JULY	8	07	29
JULY	15	22	31	JULY	22	15	41	JULY	29	22	03	AUG.	7	00	20
AUG.	14	07	02	AUG.	20	21	36	AUG.	28	12	01	SEPT.	5	16	07
SEPT.	12	14	57	SEPT.	19	06	23	SEPT.	27	04	05	OCT.	5	06	11
OCT.	11	23	17	OCT.	18	18	52	OCT.	26	21	46	NOV.	3	18	06
NOV.	10	08	58	NOV.	17	11	16	NOV.	25	15	59	DEC.	3	03	58
DEC.	9	20	28	DEC.	17	07	02	DEC.	25	09	13				
1826															
												JAN.	1	12	25
JAN.	8	09	45	JAN.	16	04	49	JAN.	24	00	15	JAN.	30	20	23
FEB.	7	00	36	FEB.	15	02	26	FEB.	22	12	39	MAR.	1	04	44
MAR.	8	16	40	MAR.	16	21	39	MAR.	23	22	48	MAR.	30	14	07
APR.	7	09	28	APR.	15	12	58	APR.	22	07	25	APR.	29	01	00
MAY	7	02	12	MAY	15	00	09	MAY	21	15	13	MAY	28	13	43
JUNE	5	17	52	JUNE	13	07	54	JUNE	19	22	54	JUNE	27	04	27
JULY	5	07	41	JULY	12	13	30	JULY	19	07	18	JULY	26	21	09
AUG.	3	19	28	AUG.	10	18	19	AUG.	17	17	19	AUG.	25	15	12
SEPT.	2	05	43	SEPT.	8	23	43	SEPT.	16	05	53	SEPT.	24	09	25
OCT.	1	15	20	OCT.	8	06	58	OCT.	15	21	32	OCT.	24	02	34
OCT.	31	01	06	NOV.	6	17	09	NOV.	14	15	53	NOV.	22	17	46
NOV.	29	11	26	DEC.	6	07	04	DEC.	14	11	27	DEC.	22	06	34
DEC.	28	22	23												
1827															
				JAN.	5	00	47	JAN.	13	06	11	JAN.	20	17	00
JAN.	27	10	00	FEB.	3	21	20	FEB.	11	22	38	FEB.	19	01	24
FEB.	25	22	28	MAR.	5	18	38	MAR.	13	12	19	MAR.	20	08	31
MAR.	27	12	07	APR.	4	14	29	APR.	11	23	24	APR.	18	15	18
APR.	26	03	00	MAY	4	07	21	MAY	11	08	21	MAY	17	22	55
MAY	25	18	36	JUNE	2	20	50	JUNE	9	15	48	JUNE	16	08	27
JUNE	24	10	06	JULY	2	07	12	JULY	8	22	36	JULY	15	20	41
JULY	24	00	51	JULY	31	15	06	AUG.	7	05	47	AUG.	14	11	53
AUG.	22	14	35	AUG.	29	21	22	SEPT.	5	14	36	SEPT.	13	05	40
SEPT.	21	03	26	SEPT.	28	03	05	OCT.	5	02	08	OCT.	13	01	04
OCT.	20	15	33	OCT.	27	09	33	NOV.	3	16	58	NOV.	11	20	44
NOV.	19	03	05	NOV.	25	18	06	DEC.	3	10	40	DEC.	11	15	16
DEC.	18	14	02	DEC.	25	05	48								

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
1828			
		JAN. 2 06 01	JAN. 10 07 24
JAN. 17 00 34	JAN. 23 20 57	FEB. 1 01 18	FEB. 8 20 09
FEB. 15 11 00	FEB. 22 14 53	MAR. 1 19 06	MAR. 9 05 29
MAR. 15 21 47	MAR. 23 10 08	MAR. 31 10 23	APR. 7 12 09
APR. 14 09 18	APR. 22 05 17	APR. 29 22 41	MAY 6 17 29
MAY 13 21 45	MAY 21 23 08	MAY 29 08 14	JUNE 4 23 01
JUNE 12 11 12	JUNE 20 14 54	JUNE 27 15 46	JULY 4 06 05
JULY 12 01 35	JULY 20 04 09	JULY 26 22 27	AUG. 2 15 45
AUG. 10 16 48	AUG. 18 14 51	AUG. 25 05 30	SEPT. 1 04 39
SEPT. 9 08 31	SEPT. 16 23 21	SEPT. 23 14 05	SEPT. 30 20 57
OCT. 9 00 06	OCT. 16 06 32	OCT. 23 00 57	OCT. 30 16 19
NOV. 7 14 48	NOV. 14 13 33	NOV. 21 14 26	NOV. 29 13 33
DEC. 7 04 05	DEC. 13 21 33	DEC. 21 06 27	DEC. 29 10 43
1829			
JAN. 5 15 59	JAN. 12 07 26	JAN. 20 00 29	JAN. 28 05 34
FEB. 4 02 45	FEB. 10 19 37	FEB. 18 19 30	FEB. 26 20 34
MAR. 5 12 48	MAR. 12 09 59	MAR. 20 13 58	MAR. 28 07 25
APR. 3 22 25	APR. 11 02 09	APR. 19 06 21	APR. 26 14 53
MAY 3 07 53	MAY 10 19 33	MAY 18 19 44	MAY 25 20 17
JUNE 1 17 46	JUNE 9 13 22	JUNE 17 06 15	JUNE 24 00 58
JULY 1 04 49	JULY 9 06 36	JULY 16 14 49	JULY 23 06 21
JULY 30 17 46	AUG. 7 22 18	AUG. 14 22 31	AUG. 21 13 39
AUG. 29 08 57	SEPT. 6 11 59	SEPT. 13 06 26	SEPT. 20 00 00
SEPT. 28 01 54	OCT. 5 23 37	OCT. 12 15 16	OCT. 19 14 16
OCT. 27 19 29	NOV. 4 09 35	NOV. 11 01 30	NOV. 18 08 37
NOV. 26 12 20	DEC. 3 18 23	DEC. 10 13 32	DEC. 18 06 01
DEC. 26 03 38			
1830			
	JAN. 2 02 38	JAN. 9 03 40	JAN. 17 04 14
JAN. 24 17 07	JAN. 31 11 01	FEB. 7 19 57	FEB. 16 00 42
FEB. 23 04 50	MAR. 1 20 15	MAR. 9 13 42	MAR. 17 17 44
MAR. 24 14 50	MAR. 31 07 02	APR. 8 07 31	APR. 16 06 49
APR. 22 23 24	APR. 29 19 51	MAY 7 23 58	MAY 15 16 14
MAY 22 07 09	MAY 29 10 46	JUNE 6 14 17	JUNE 13 22 49
JUNE 20 15 04	JUNE 28 03 19	JULY 6 02 29	JULY 13 03 42
JULY 20 00 21	JULY 27 20 42	AUG. 4 13 03	AUG. 11 08 13
AUG. 18 11 57	AUG. 26 14 05	SEPT. 2 22 38	SEPT. 9 13 56
SEPT. 17 02 24	SEPT. 25 06 44	OCT. 2 07 47	OCT. 8 22 21
OCT. 16 19 18	OCT. 24 22 04	OCT. 31 17 02	NOV. 7 10 37
NOV. 15 13 41	NOV. 23 11 31	NOV. 30 02 58	DEC. 7 03 08
DEC. 15 08 15	DEC. 22 22 42	DEC. 29 14 05	
1831			
			JAN. 5 23 00
JAN. 14 01 47	JAN. 21 07 41	JAN. 28 02 46	FEB. 4 20 27
FEB. 12 17 14	FEB. 19 15 13	FEB. 26 17 03	MAR. 6 17 23
MAR. 14 05 59	MAR. 20 22 25	MAR. 28 08 27	APR. 5 12 06
APR. 12 16 01	APR. 19 06 27	APR. 27 00 17	MAY 5 03 31
MAY 11 23 57	MAY 18 16 09	MAY 26 15 57	JUNE 3 15 18
JUNE 10 06 50	JUNE 17 04 00	JUNE 25 07 02	JULY 2 23 44
JULY 9 13 52	JULY 16 18 08	JULY 24 21 11	AUG. 1 05 48
AUG. 7 22 09	AUG. 15 10 29	AUG. 23 10 08	AUG. 30 10 49
SEPT. 6 08 32	SEPT. 14 04 39	SEPT. 21 21 48	SEPT. 28 16 19
OCT. 5 21 34	OCT. 13 23 46	OCT. 21 08 29	OCT. 27 23 47
NOV. 4 13 23	NOV. 12 18 30	NOV. 19 18 43	NOV. 26 10 15
DEC. 4 07 39	DEC. 12 11 16	DEC. 19 05 08	DEC. 26 00 11

NEW MOON	FIRST QUARTER	FULL MOON	LAST QUARTER
D H M	D H M	D H M	D H M
1832			
JAN. 3 03 17	JAN. 11 00 59	JAN. 17 16 04	JAN. 24 17 15
FEB. 1 22 30	FEB. 9 11 28	FEB. 16 03 33	FEB. 23 12 35
MAR. 2 15 26	MAR. 9 19 23	MAR. 16 15 31	MAR. 24 08 48
APR. 1 05 05	APR. 8 01 51	APR. 15 04 00	APR. 23 04 11
APR. 30 15 37	MAY 7 08 01	MAY 14 17 20	MAY 22 21 16
MAY 29 23 53	JUNE 5 14 57	JUNE 13 07 44	JUNE 21 11 15
JUNE 28 07 01	JULY 4 23 37	JULY 12 23 00	JULY 20 22 08
JULY 27 14 02	AUG. 3 10 56	AUG. 11 14 33	AUG. 19 06 37
AUG. 25 21 46	SEPT. 2 01 30	SEPT. 10 05 30	SEPT. 17 13 40
SEPT. 24 07 00	OCT. 1 19 27	OCT. 9 19 23	OCT. 16 20 20
OCT. 23 18 34	OCT. 31 15 50	NOV. 8 08 14	NOV. 15 03 36
NOV. 22 09 04	NOV. 30 12 46	DEC. 7 20 20	DEC. 14 12 27
DEC. 22 02 35	DEC. 30 08 12		
1833			
		JAN. 6 07 52	JAN. 12 23 37
JAN. 20 22 05	JAN. 29 00 37	FEB. 4 18 47	FEB. 11 13 30
FEB. 19 17 34	FEB. 27 13 26	MAR. 6 04 58	MAR. 13 05 57
MAR. 21 11 07	MAR. 28 22 50	APR. 4 14 43	APR. 12 00 09
APR. 20 01 46	APR. 27 05 31	MAY 4 00 44	MAY 11 18 43
MAY 19 13 36	MAY 26 10 38	JUNE 2 11 50	JUNE 10 12 21
JUNE 17 23 11	JUNE 24 15 31	JULY 2 00 37	JULY 10 04 13
JULY 17 07 17	JULY 23 21 40	JULY 31 15 09	AUG. 8 18 02
AUG. 15 14 40	AUG. 22 06 32	AUG. 30 06 56	SEPT. 7 05 53
SEPT. 13 22 13	SEPT. 20 19 09	SEPT. 28 23 16	OCT. 6 15 58
OCT. 13 06 54	OCT. 20 11 50	OCT. 28 15 33	NOV. 5 00 35
NOV. 11 17 39	NOV. 19 07 48	NOV. 27 07 08	DEC. 4 08 21
DEC. 11 07 05	DEC. 19 05 28	DEC. 26 21 32	
1834			
			JAN. 2 16 13
JAN. 9 23 10	JAN. 18 02 43	JAN. 25 10 13	FEB. 1 01 15
FEB. 8 17 01	FEB. 16 21 41	FEB. 23 21 00	MAR. 2 12 14
MAR. 10 11 16	MAR. 18 13 03	MAR. 25 06 13	APR. 1 01 27
APR. 9 04 41	APR. 17 00 18	APR. 23 14 36	APR. 30 16 31
MAY 8 20 25	MAY 16 07 54	MAY 22 23 02	MAY 30 08 53
JUNE 7 09 57	JUNE 14 13 02	JUNE 21 08 22	JUNE 29 01 57
JULY 6 21 14	JULY 13 17 16	JULY 20 19 16	JULY 28 19 08
AUG. 5 06 36	AUG. 11 22 14	AUG. 19 08 12	AUG. 27 11 47
SEPT. 3 14 52	SEPT. 10 05 26	SEPT. 17 23 19	SEPT. 26 03 06
OCT. 2 23 03	OCT. 9 16 01	OCT. 17 16 27	OCT. 25 16 29
NOV. 1 08 08	NOV. 8 06 30	NOV. 16 10 48	NOV. 24 03 36
NOV. 30 18 48	DEC. 8 00 43	DEC. 16 04 55	DEC. 23 12 50
DEC. 30 07 12			
1835			
	JAN. 6 21 40	JAN. 14 21 16	JAN. 21 20 56
JAN. 28 21 12	FEB. 5 19 36	FEB. 13 11 00	FEB. 20 04 52
FEB. 27 12 28	MAR. 7 16 12	MAR. 14 22 07	MAR. 21 13 26
MAR. 29 04 41	APR. 6 09 31	APR. 13 07 16	APR. 19 23 12
APR. 27 21 20	MAY 5 22 43	MAY 12 15 14	MAY 19 10 38
MAY 27 13 32	JUNE 4 08 06	JUNE 10 22 45	JUNE 18 00 06
JUNE 26 04 21	JULY 3 14 42	JULY 10 06 37	JULY 17 15 43
JULY 25 17 14	AUG. 1 19 50	AUG. 8 15 40	AUG. 16 09 15
AUG. 24 04 23	AUG. 31 00 52	SEPT. 7 02 51	SEPT. 15 03 44
SEPT. 22 14 27	SEPT. 29 07 09	OCT. 6 17 01	OCT. 14 21 52
OCT. 22 00 18	OCT. 28 15 47	NOV. 5 10 16	NOV. 13 14 28
NOV. 20 10 30	NOV. 27 03 46	DEC. 5 05 35	DEC. 13 04 46
DEC. 19 21 14	DEC. 26 19 35		

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1836							
				JAN.	4 01 05	JAN.	11 16 30
JAN.	18 08 28	JAN.	25 14 45	FEB.	2 18 50	FEB.	10 01 52
FEB.	16 20 17	FEB.	24 11 46	MAR.	3 09 51	MAR.	10 09 24
MAR.	17 09 03	MAR.	25 08 24	APR.	1 22 08	APR.	8 16 02
APR.	15 23 02	APR.	24 02 45	MAY	1 07 58	MAY	7 22 49
MAY	15 14 07	MAY	23 17 56	MAY	30 16 00	JUNE	6 07 01
JUNE	14 05 37	JUNE	22 05 53	JUNE	28 22 57	JULY	5 17 35
JULY	13 20 49	JULY	21 15 05	JULY	28 05 47	AUG.	4 07 12
AUG.	12 11 13	AUG.	19 22 16	AUG.	26 13 40	SEPT.	2 23 49
SEPT.	11 00 43	SEPT.	18 04 20	SEPT.	24 23 49	OCT.	2 18 42
OCT.	10 13 29	OCT.	17 10 25	OCT.	24 13 04	NOV.	1 14 39
NOV.	9 01 35	NOV.	15 17 51	NOV.	23 05 31	DEC.	1 10 12
DEC.	8 13 00	DEC.	15 03 52	DEC.	23 00 16	DEC.	31 03 53
1837							
JAN.	6 23 46	JAN.	13 17 12	JAN.	21 19 45	JAN.	29 18 31
FEB.	5 10 07	FEB.	12 09 39	FEB.	20 14 23	FEB.	28 05 31
MAR.	6 20 30	MAR.	14 04 08	MAR.	22 06 56	MAR.	29 13 17
APR.	5 07 20	APR.	12 23 13	APR.	20 20 40	APR.	27 18 57
MAY	4 19 01	MAY	12 17 39	MAY	20 07 28	MAY	27 00 01
JUNE	3 07 44	JUNE	11 10 30	JUNE	18 15 52	JUNE	25 05 59
JULY	2 21 30	JULY	11 01 10	JULY	17 22 51	JULY	24 14 06
AUG.	1 12 21	AUG.	9 13 22	AUG.	16 05 39	AUG.	23 01 17
AUG.	31 04 01	SEPT.	7 23 13	SEPT.	14 13 28	SEPT.	21 15 55
SEPT.	29 20 02	OCT.	7 07 13	OCT.	13 23 15	OCT.	21 09 55
OCT.	29 11 34	NOV.	5 14 24	NOV.	12 11 30	NOV.	20 06 35
NOV.	28 01 51	DEC.	4 21 52	DEC.	12 02 17	DEC.	20 04 13
DEC.	27 14 34						
1838							
		JAN.	3 06 43	JAN.	10 19 20	JAN.	19 00 35
JAN.	26 01 52	FEB.	1 17 34	FEB.	9 13 52	FEB.	17 17 39
FEB.	24 12 08	MAR.	3 06 35	MAR.	11 08 39	MAR.	19 06 31
MAR.	25 21 44	APR.	1 21 32	APR.	10 02 06	APR.	17 15 30
APR.	24 07 00	MAY	1 14 05	MAY	9 16 57	MAY	16 21 42
MAY	23 16 22	MAY	31 07 36	JUNE	8 04 51	JUNE	15 02 31
JUNE	22 02 33	JUNE	30 01 12	JULY	7 14 20	JULY	14 07 20
JULY	21 14 23	JULY	29 17 54	AUG.	5 22 26	AUG.	12 13 29
AUG.	20 04 27	AUG.	28 08 55	SEPT.	4 06 18	SEPT.	10 22 09
SEPT.	18 20 45	SEPT.	26 21 53	OCT.	3 14 47	OCT.	10 10 25
OCT.	18 14 26	OCT.	26 08 59	NOV.	2 00 25	NOV.	9 02 49
NOV.	17 08 02	NOV.	24 18 32	DEC.	1 11 35	DEC.	8 22 56
DEC.	17 00 24	DEC.	24 03 07	DEC.	31 00 36		
1839							
						JAN.	7 21 05
JAN.	15 14 54	JAN.	22 11 18	JAN.	29 15 41	FEB.	6 18 41
FEB.	14 03 28	FEB.	20 19 50	FEB.	28 08 36	MAR.	8 13 32
MAR.	15 14 13	MAR.	22 05 29	MAR.	30 02 19	APR.	7 04 32
APR.	13 23 17	APR.	20 16 54	APR.	28 19 24	MAY	6 15 43
MAY	13 07 10	MAY	20 06 27	MAY	28 10 45	JUNE	4 23 38
JUNE	11 14 42	JUNE	18 22 01	JUNE	27 00 00	JULY	4 05 14
JULY	10 23 02	JULY	18 15 02	JULY	26 11 26	AUG.	2 09 49
AUG.	9 09 20	AUG.	17 08 38	AUG.	24 21 39	AUG.	31 14 49
SEPT.	7 22 22	SEPT.	16 02 00	SEPT.	23 07 10	SEPT.	29 21 44
OCT.	7 14 14	OCT.	15 18 25	OCT.	22 16 32	OCT.	29 08 00
NOV.	6 08 12	NOV.	14 09 13	NOV.	21 02 14	NOV.	27 22 27
DEC.	6 03 01	DEC.	13 21 48	DEC.	20 12 45	DEC.	27 16 45

PHASES OF THE MOON

1840

NEW MOON				FIRST QUARTER				FULL MOON				LAST QUARTER			
	D	H	M		D	H	M		D	H	M		D	H	M
JAN.	4	21	21	JAN.	12	07	57	JAN.	19	00	34	JAN.	26	13	34
FEB.	3	13	59	FEB.	10	16	04	FEB.	17	13	54	FEB.	25	10	51
MAR.	4	04	06	MAR.	10	23	08	MAR.	18	04	31	MAR.	26	06	42
APR.	2	15	21	APR.	9	06	22	APR.	16	19	55	APR.	24	23	46
MAY	2	00	06	MAY	8	14	50	MAY	16	11	30	MAY	24	13	24
MAY	31	07	14	JUNE	7	01	17	JUNE	15	02	49	JUNE	22	23	31
JUNE	29	13	59	JULY	6	14	04	JULY	14	17	30	JULY	22	06	46
JULY	28	21	28	AUG.	5	05	15	AUG.	13	07	15	AUG.	20	12	18
AUG.	27	06	44	SEPT.	3	22	38	SEPT.	11	19	50	SEPT.	18	17	32
SEPT.	25	18	27	OCT.	3	17	38	OCT.	11	07	14	OCT.	17	23	59
OCT.	25	08	59	NOV.	2	13	04	NOV.	9	17	52	NOV.	16	08	54
NOV.	24	02	12	DEC.	2	07	19	DEC.	9	04	17	DEC.	15	21	04
DEC.	23	21	25	DEC.	31	22	51								

1841

NEW MOON				FIRST QUARTER				FULL MOON				LAST QUARTER			
								JAN.	7	14	58	JAN.	14	12	31
JAN.	22	17	06	JAN.	30	10	59	FEB.	6	02	06	FEB.	13	06	39
FEB.	21	11	21	FEB.	28	20	02	MAR.	7	13	37	MAR.	15	02	19
MAR.	23	02	36	MAR.	30	02	59	APR.	6	01	31	APR.	13	22	05
APR.	21	14	31	APR.	28	08	58	MAY	5	14	05	MAY	13	16	22
MAY	20	23	43	MAY	27	15	10	JUNE	4	03	42	JUNE	12	07	58
JUNE	19	07	15	JUNE	25	22	38	JULY	3	18	29	JULY	11	20	30
JULY	18	14	13	JULY	25	08	21	AUG.	2	10	02	AUG.	10	06	19
AUG.	16	21	33	AUG.	23	21	11	SEPT.	1	01	34	SEPT.	8	14	14
SEPT.	15	06	03	SEPT.	22	13	31	SEPT.	30	16	19	OCT.	7	21	12
OCT.	14	16	27	OCT.	22	09	01	OCT.	30	05	58	NOV.	6	04	14
NOV.	13	05	30	NOV.	21	06	11	NOV.	28	18	39	DEC.	5	12	16
DEC.	12	21	36	DEC.	21	02	49	DEC.	28	06	35				

1842

NEW MOON				FIRST QUARTER				FULL MOON				LAST QUARTER			
												JAN.	3	22	09
JAN.	11	16	15	JAN.	19	21	00	JAN.	26	17	50	FEB.	2	10	27
FEB.	10	11	54	FEB.	18	11	40	FEB.	25	04	15	MAR.	4	01	23
MAR.	12	06	28	MAR.	19	22	41	MAR.	26	13	57	APR.	2	18	30
APR.	10	22	31	APR.	18	06	32	APR.	24	23	27	MAY	2	12	46
MAY	10	11	38	MAY	17	12	11	MAY	24	09	40	JUNE	1	06	51
JUNE	8	22	14	JUNE	15	16	52	JUNE	22	21	22	JUNE	30	23	41
JULY	8	07	02	JULY	14	22	06	JULY	22	10	58	JULY	30	14	43
AUG.	6	14	46	AUG.	13	05	22	AUG.	21	02	15	AUG.	29	03	50
SEPT.	4	22	16	SEPT.	11	15	59	SEPT.	19	18	34	SEPT.	27	15	06
OCT.	4	06	24	OCT.	11	06	41	OCT.	19	11	12	OCT.	27	00	41
NOV.	2	16	08	NOV.	10	01	16	NOV.	18	03	29	NOV.	25	08	59
DEC.	2	04	15	DEC.	9	22	24	DEC.	17	18	47	DEC.	24	16	46
DEC.	31	19	03												

1843

NEW MOON				FIRST QUARTER				FULL MOON				LAST QUARTER			
				JAN.	8	20	11	JAN.	16	08	28	JAN.	23	01	02
JAN.	30	12	01	FEB.	7	16	32	FEB.	14	20	10	FEB.	21	10	46
MAR.	1	06	02	MAR.	9	09	49	MAR.	16	05	58	MAR.	22	22	34
MAR.	30	23	49	APR.	7	23	07	APR.	14	14	29	APR.	21	12	25
APR.	29	16	18	MAY	7	08	25	MAY	13	22	34	MAY	21	03	54
MAY	29	06	55	JUNE	5	14	35	JUNE	12	07	10	JUNE	19	20	30
JUNE	27	19	20	JULY	4	19	03	JULY	11	17	06	JULY	19	13	40
JULY	27	05	43	AUG.	2	23	27	AUG.	10	04	55	AUG.	18	06	50
AUG.	25	14	36	SEPT.	1	05	22	SEPT.	8	18	58	SEPT.	16	23	13
SEPT.	23	22	53	SEPT.	30	14	11	CCT.	8	11	17	OCT.	16	13	59
OCT.	23	07	36	OCT.	30	02	43	NOV.	7	05	23	NOV.	15	02	33
NOV.	21	17	34	NOV.	28	19	09	DEC.	7	00	01	DEC.	14	12	53
DEC.	21	05	09	DEC.	28	14	52								

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1844							
				JAN.	5 17 34	JAN.	12 21 32
JAN.	19 18 18	JAN.	27 12 31	FEB.	4 08 43	FEB.	11 05 22
FEB.	18 08 45	FEB.	26 09 58	MAR.	4 21 03	MAR.	11 13 20
MAR.	19 00 17	MAR.	27 05 02	APR.	3 06 57	APR.	9 22 08
APR.	17 16 32	APR.	25 20 17	MAY	2 15 16	MAY	9 08 22
MAY	17 08 53	MAY	25 07 30	MAY	31 22 47	JUNE	7 20 29
JUNE	16 00 26	JUNE	23 15 25	JUNE	30 06 17	JULY	7 10 50
JULY	15 14 23	JULY	22 21 13	JULY	29 14 33	AUG.	6 03 26
AUG.	14 02 32	AUG.	21 02 16	AUG.	28 00 34	SEPT.	4 21 44
SEPT.	12 13 17	SEPT.	19 07 52	SEPT.	26 13 14	OCT.	4 16 29
OCT.	11 23 25	OCT.	18 15 16	OCT.	26 05 06	NOV.	3 10 20
NOV.	10 09 37	NOV.	17 01 31	NOV.	24 23 42	DEC.	3 02 08
DEC.	9 20 13	DEC.	16 15 21	DEC.	24 19 29		
1845							
						JAN.	1 15 21
JAN.	8 07 12	JAN.	15 08 51	JAN.	23 14 20	JAN.	31 01 56
FEB.	6 18 35	FEB.	14 05 00	FEB.	22 06 46	MAR.	1 10 14
MAR.	8 06 36	MAR.	16 01 53	MAR.	23 20 19	MAR.	30 17 01
APR.	6 19 41	APR.	14 21 23	APR.	22 07 12	APR.	28 23 20
MAY	6 09 58	MAY	14 14 09	MAY	21 15 58	MAY	28 06 25
JUNE	5 01 08	JUNE	13 03 44	JUNE	19 23 18	JUNE	26 15 27
JULY	4 16 30	JULY	12 14 23	JULY	19 06 03	JULY	26 03 21
AUG.	3 07 25	AUG.	10 22 41	AUG.	17 13 18	AUG.	24 18 27
SEPT.	1 21 36	SEPT.	9 05 24	SEPT.	15 22 15	SEPT.	23 12 25
OCT.	1 11 00	OCT.	8 11 31	OCT.	15 09 57	OCT.	23 08 15
OCT.	30 23 42	NOV.	6 18 15	NOV.	14 00 56	NOV.	22 04 27
NOV.	29 11 42	DEC.	6 02 53	DEC.	13 18 43	DEC.	21 23 28
DEC.	28 22 53						
1846							
		JAN.	4 14 26	JAN.	12 14 02	JAN.	20 15 52
JAN.	27 09 23	FEB.	3 05 12	FEB.	11 09 12	FEB.	19 04 44
FEB.	25 19 32	MAR.	4 22 32	MAR.	13 02 49	MAR.	20 13 58
MAR.	27 05 51	APR.	3 17 12	APR.	11 17 55	APR.	18 20 25
APR.	25 16 48	MAY	3 11 52	MAY	11 06 06	MAY	18 01 27
MAY	25 04 44	JUNE	2 05 31	JUNE	9 15 36	JUNE	16 06 38
JUNE	23 17 48	JULY	1 21 23	JULY	8 23 11	JULY	15 13 24
JULY	23 08 04	JULY	31 11 03	AUG.	7 06 00	AUG.	13 22 51
AUG.	21 23 25	AUG.	29 22 19	SEPT.	5 13 17	SEPT.	12 11 43
SEPT.	20 15 34	SEPT.	28 07 27	OCT.	4 22 07	OCT.	12 04 08
OCT.	20 07 45	OCT.	27 15 10	NOV.	3 09 11	NOV.	10 23 44
NOV.	18 23 00	NOV.	25 22 31	DEC.	2 22 47	DEC.	10 21 16
DEC.	18 12 43	DEC.	25 06 37				
1847							
				JAN.	1 14 43	JAN.	9 18 40
JAN.	17 00 45	JAN.	23 16 18	JAN.	31 08 28	FEB.	8 13 39
FEB.	15 11 26	FEB.	22 04 00	MAR.	2 03 09	MAR.	10 04 39
MAR.	16 21 11	MAR.	23 17 41	MAR.	31 21 16	APR.	8 15 26
APR.	15 06 21	APR.	22 09 09	APR.	30 13 26	MAY	7 22 50
MAY	14 15 23	MAY	22 01 59	MAY	30 02 46	JUNE	6 04 06
JUNE	13 00 52	JUNE	20 19 33	JUNE	28 13 23	JULY	5 08 43
JULY	12 11 38	JULY	20 12 53	JULY	27 22 09	AUG.	3 14 00
AUG.	11 00 30	AUG.	19 05 02	AUG.	26 06 10	SEPT.	1 21 14
SEPT.	9 15 48	SEPT.	17 19 21	SEPT.	24 14 26	OCT.	1 07 37
OCT.	9 09 08	OCT.	17 07 41	OCT.	23 23 36	OCT.	30 21 57
NOV.	8 03 12	NOV.	15 18 15	NOV.	22 10 04	NOV.	29 16 22
DEC.	7 20 32	DEC.	15 03 26	DEC.	21 22 09	DEC.	29 13 48

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
1848			
JAN. 6 12 08	JAN. 13 11 46	JAN. 20 12 05	JAN. 28 11 59
FEB. 5 01 42	FEB. 11 19 56	FEB. 19 03 57	FEB. 27 08 22
MAR. 5 13 17	MAR. 12 04 41	MAR. 19 21 10	MAR. 28 01 18
APR. 3 23 01	APR. 10 14 49	APR. 18 14 31	APR. 26 14 20
MAY 3 07 15	MAY 10 02 57	MAY 18 06 42	MAY 25 23 47
JUNE 1 14 40	JUNE 8 17 15	JUNE 16 20 58	JUNE 24 06 28
JUNE 30 22 19	JULY 8 09 30	JULY 16 09 21	JULY 23 11 28
JULY 30 07 26	AUG. 7 02 57	AUG. 14 20 16	AUG. 21 16 09
AUG. 28 19 02	SEPT. 5 20 44	SEPT. 13 06 19	SEPT. 19 21 58
SEPT. 27 09 36	OCT. 5 14 01	OCT. 12 15 56	OCT. 19 06 28
OCT. 27 02 47	NOV. 4 06 04	NOV. 11 01 36	NOV. 17 18 47
NOV. 25 21 31	DEC. 3 20 07	DEC. 10 11 44	DEC. 17 11 14
DEC. 25 16 23			
1849			
	JAN. 2 07 39	JAN. 8 22 51	JAN. 16 06 54
JAN. 24 10 03	JAN. 31 16 43	FEB. 7 11 16	FEB. 15 04 03
FEB. 23 01 30	MAR. 2 00 03	MAR. 9 01 02	MAR. 17 00 39
MAR. 24 14 05	MAR. 31 06 50	APR. 7 15 49	APR. 15 19 08
APR. 22 23 54	APR. 29 14 17	MAY 7 07 07	MAY 15 10 30
MAY 22 07 36	MAY 28 23 23	JUNE 5 22 27	JUNE 13 22 25
JUNE 20 14 19	JUNE 27 10 44	JULY 5 13 29	JULY 13 07 09
JULY 19 21 16	JULY 27 00 36	AUG. 4 03 53	AUG. 11 13 33
AUG. 18 05 33	AUG. 25 16 56	SEPT. 2 17 18	SEPT. 9 18 56
SEPT. 16 16 02	SEPT. 24 11 24	OCT. 2 05 33	OCT. 9 00 44
OCT. 16 05 14	OCT. 24 07 04	OCT. 31 16 46	NOV. 7 08 23
NOV. 14 21 14	NOV. 23 02 24	NOV. 30 03 25	DEC. 6 18 53
DEC. 14 15 38	DEC. 22 19 41	DEC. 29 14 01	
1850			
			JAN. 5 08 37
JAN. 13 11 20	JAN. 21 09 40	JAN. 28 00 52	FEB. 4 01 19
FEB. 12 06 29	FEB. 19 20 12	FEB. 26 12 01	MAR. 5 20 06
MAR. 13 23 17	MAR. 21 03 58	MAR. 27 23 26	APR. 4 15 44
APR. 12 12 47	APR. 19 10 07	APR. 26 11 20	MAY 4 10 46
MAY 11 23 09	MAY 18 15 53	MAY 26 00 08	JUNE 3 03 46
JUNE 10 07 20	JUNE 16 22 22	JUNE 24 14 11	JULY 2 17 58
JULY 9 14 28	JULY 16 06 42	JULY 24 05 24	AUG. 1 05 18
AUG. 7 21 34	AUG. 14 17 47	AUG. 22 21 12	AUG. 30 14 18
SEPT. 6 05 29	SEPT. 13 08 21	SEPT. 21 12 41	SEPT. 28 21 54
OCT. 5 14 57	OCT. 13 02 30	OCT. 21 03 11	OCT. 28 05 00
NOV. 4 02 41	NOV. 11 23 14	NOV. 19 16 35	NOV. 26 12 33
DEC. 3 17 17	DEC. 11 20 37	DEC. 19 05 03	DEC. 25 21 24
1851			
JAN. 2 10 44	JAN. 10 16 22	JAN. 17 16 43	JAN. 24 08 17
FEB. 1 06 02	FEB. 9 08 56	FEB. 16 03 29	FEB. 22 21 39
MAR. 3 01 14	MAR. 10 21 45	MAR. 17 13 18	MAR. 24 13 26
APR. 1 18 32	APR. 9 07 02	APR. 15 22 36	APR. 23 06 58
MAY 1 09 02	MAY 8 13 34	MAY 15 08 06	MAY 23 01 06
MAY 30 20 47	JUNE 6 18 28	JUNE 13 18 44	JUNE 21 18 34
JUNE 29 06 25	JULY 5 23 09	JULY 13 07 15	JULY 21 10 39
JULY 28 14 41	AUG. 4 05 08	AUG. 11 21 43	AUG. 20 00 59
AUG. 26 22 21	SEPT. 2 13 54	SEPT. 10 13 44	SEPT. 18 13 29
SEPT. 25 06 13	OCT. 2 02 31	OCT. 10 06 33	OCT. 18 00 13
OCT. 24 15 11	OCT. 31 19 17	NOV. 8 23 22	NOV. 16 09 23
NOV. 23 02 07	NOV. 30 15 27	DEC. 8 15 28	DEC. 15 17 27
DEC. 22 15 34	DEC. 30 13 15		

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1852							
				JAN.	7 06 10	JAN.	14 01 19
JAN.	21 07 27	JAN.	29 10 35	FEB.	5 18 53	FEB.	12 10 03
FEB.	20 00 54	FEB.	28 05 32	MAR.	6 05 30	MAR.	12 20 30
MAR.	20 18 43	MAR.	28 20 50	APR.	4 14 24	APR.	11 08 59
APR.	19 11 44	APR.	27 08 03	MAY	3 22 23	MAY	10 23 23
MAY	19 03 15	MAY	26 15 39	JUNE	2 06 26	JUNE	9 15 15
JUNE	17 16 47	JUNE	24 20 47	JULY	1 15 28	JULY	9 08 07
JULY	17 04 16	JULY	24 01 02	JULY	31 02 12	AUG.	8 01 27
AUG.	15 13 59	AUG.	22 06 02	AUG.	29 15 07	SEPT.	6 18 35
SEPT.	13 22 39	SEPT.	20 13 17	SEPT.	28 06 25	OCT.	6 10 36
OCT.	13 07 15	OCT.	19 23 56	OCT.	27 23 54	NOV.	5 00 41
NOV.	11 16 42	NOV.	18 14 27	NOV.	26 18 42	DEC.	4 12 23
DEC.	11 03 32	DEC.	18 08 39	DEC.	26 13 11		
1853							
						JAN.	2 21 54
JAN.	9 15 53	JAN.	17 05 29	JAN.	25 05 43	FEB.	1 06 01
FEB.	8 05 33	FEB.	16 03 12	FEB.	23 19 24	MAR.	2 13 40
MAR.	9 20 18	MAR.	17 23 35	MAR.	25 06 20	MAR.	31 21 43
APR.	8 11 57	APR.	16 16 45	APR.	23 15 13	APR.	30 06 51
MAY	8 04 05	MAY	16 05 57	MAY	22 22 52	MAY	29 17 39
JUNE	6 20 02	JUNE	14 15 27	JUNE	21 06 11	JUNE	28 06 36
JULY	6 10 55	JULY	13 22 16	JULY	20 13 54	JULY	27 22 01
AUG.	5 00 06	AUG.	12 03 39	AUG.	18 22 56	AUG.	26 15 38
SEPT.	3 11 42	SEPT.	10 08 59	SEPT.	17 10 12	SEPT.	25 10 33
OCT.	2 22 19	OCT.	9 15 26	OCT.	17 00 33	OCT.	25 05 21
NOV.	1 08 40	NOV.	8 00 13	NOV.	15 18 00	NOV.	23 22 35
NOV.	30 19 14	DEC.	7 12 11	DEC.	15 13 34	DEC.	23 13 23
DEC.	30 06 06						
1854							
		JAN.	6 03 48	JAN.	14 09 12	JAN.	22 01 23
JAN.	28 17 12	FEB.	4 22 37	FEB.	13 02 58	FEB.	20 10 44
FEB.	27 04 39	MAR.	6 19 10	MAR.	14 17 53	MAR.	21 18 03
MAR.	28 16 52	APR.	5 15 22	APR.	13 05 57	APR.	20 00 15
APR.	27 06 14	MAY	5 09 29	MAY	12 15 37	MAY	19 06 33
MAY	26 20 47	JUNE	4 00 40	JUNE	10 23 31	JUNE	17 14 13
JUNE	25 12 01	JULY	3 12 52	JULY	10 06 25	JULY	17 00 26
JULY	25 03 16	AUG.	1 22 28	AUG.	8 13 19	AUG.	15 13 50
AUG.	23 18 01	AUG.	31 06 08	SEPT.	6 21 20	SEPT.	14 06 30
SEPT.	22 08 04	SEPT.	29 12 38	OCT.	6 07 37	OCT.	14 01 44
OCT.	21 21 26	OCT.	28 19 05	NOV.	4 21 02	NOV.	12 22 09
NOV.	20 10 02	NOV.	27 02 41	DEC.	4 13 35	DEC.	12 18 11
DEC.	19 21 48	DEC.	26 12 38				
1855							
				JAN.	3 08 19	JAN.	11 12 14
JAN.	18 08 38	JAN.	25 01 40	FEB.	2 03 42	FEB.	10 03 00
FEB.	16 18 47	FEB.	23 17 34	MAR.	3 22 09	MAR.	11 14 00
MAR.	18 04 45	MAR.	25 11 26	APR.	2 14 28	APR.	9 21 36
APR.	16 15 05	APR.	24 05 57	MAY	2 04 03	MAY	9 03 02
MAY	16 02 13	MAY	24 00 03	MAY	31 14 48	JUNE	7 07 49
JUNE	14 14 29	JUNE	22 16 52	JUNE	29 23 15	JULY	6 13 29
JULY	14 04 01	JULY	22 07 51	JULY	29 06 21	AUG.	4 21 21
AUG.	12 18 53	AUG.	20 20 34	AUG.	27 13 22	SEPT.	3 08 25
SEPT.	11 10 53	SEPT.	19 07 02	SEPT.	25 21 26	OCT.	2 23 04
OCT.	11 03 25	OCT.	18 15 38	OCT.	25 07 27	NOV.	1 17 17
NOV.	9 19 32	NOV.	16 23 15	NOV.	23 19 51	DEC.	1 14 11
DEC.	9 10 18	DEC.	16 06 57	DEC.	23 10 39	DEC.	31 12 04

PHASES OF THE MOON

1856

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	7 23 18	JAN.	14 15 43	JAN.	22 03 29	JAN.	30 08 35
FEB.	6 10 36	FEB.	13 02 12	FEB.	20 21 41	FEB.	29 01 42
MAR.	6 20 39	MAR.	13 14 36	MAR.	21 16 05	MAR.	29 14 31
APR.	5 05 53	APR.	12 04 52	APR.	20 09 13	APR.	27 23 26
MAY	4 14 42	MAY	11 20 46	MAY	19 23 56	MAY	27 05 34
JUNE	2 23 40	JUNE	10 13 51	JUNE	18 11 52	JUNE	25 10 17
JULY	2 09 31	JULY	10 07 23	JULY	17 21 32	JULY	24 15 02
JULY	31 21 08	AUG.	9 00 23	AUG.	16 05 55	AUG.	22 21 08
AUG.	30 11 14	SEPT.	7 15 57	SEPT.	14 14 09	SEPT.	21 05 49
SEPT.	29 03 49	OCT.	7 05 38	OCT.	13 23 00	OCT.	20 18 07
OCT.	28 21 55	NOV.	5 17 23	NOV.	12 08 56	NOV.	19 10 35
NOV.	27 16 01	DEC.	5 03 27	DEC.	11 20 14	DEC.	19 06 44
DEC.	27 08 45						

1857

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
		JAN.	3 12 14	JAN.	10 09 08	JAN.	18 04 50
JAN.	25 23 26	FEB.	1 20 21	FEB.	8 23 54	FEB.	17 02 20
FEB.	24 11 58	MAR.	3 04 31	MAR.	10 16 18	MAR.	18 21 03
MAR.	25 22 29	APR.	1 13 34	APR.	9 09 29	APR.	17 12 00
APR.	24 07 14	MAY	1 00 18	MAY	9 02 11	MAY	16 23 11
MAY	23 14 47	MAY	30 13 13	JUNE	7 17 23	JUNE	15 07 11
JUNE	21 22 04	JUNE	29 04 20	JULY	7 06 44	JULY	14 12 57
JULY	21 06 13	JULY	28 21 14	AUG.	5 18 29	AUG.	12 17 42
AUG.	19 16 27	AUG.	27 15 05	SEPT.	4 05 08	SEPT.	10 22 51
SEPT.	18 05 34	SEPT.	26 09 00	OCT.	3 15 09	OCT.	10 05 54
OCT.	17 21 39	OCT.	26 02 06	NOV.	2 00 58	NOV.	8 16 15
NOV.	16 15 55	NOV.	24 17 34	DEC.	1 10 57	DEC.	8 06 39
DEC.	16 11 02	DEC.	24 06 37	DEC.	30 21 33		

1858

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
						JAN.	7 00 47
JAN.	15 05 33	JAN.	22 16 57	JAN.	29 09 12	FEB.	5 21 17
FEB.	13 22 12	FEB.	21 00 58	FEB.	27 22 05	MAR.	7 18 11
MAR.	15 12 13	MAR.	22 07 43	MAR.	29 12 08	APR.	6 13 43
APR.	13 23 16	APR.	20 14 26	APR.	28 02 57	MAY	6 06 40
MAY	13 07 48	MAY	19 22 21	MAY	27 18 05	JUNE	4 20 22
JUNE	11 14 46	JUNE	18 08 14	JUNE	26 09 14	JULY	4 06 44
JULY	10 21 25	JULY	17 20 39	JULY	26 00 03	AUG.	2 14 21
AUG.	9 04 54	AUG.	16 11 43	AUG.	24 14 12	AUG.	31 20 17
SEPT.	7 14 16	SEPT.	15 05 17	SEPT.	23 03 20	SEPT.	30 01 52
OCT.	7 02 07	OCT.	15 00 43	OCT.	22 15 19	OCT.	29 08 34
NOV.	5 16 49	NOV.	13 20 43	NOV.	21 02 25	NOV.	27 17 35
DEC.	5 10 11	DEC.	13 15 29	DEC.	20 13 07	DEC.	27 05 39

1859

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	4 05 26	JAN.	12 07 24	JAN.	18 23 49	JAN.	25 20 46
FEB.	3 01 05	FEB.	10 19 40	FEB.	17 10 42	FEB.	24 14 21
MAR.	4 19 11	MAR.	12 04 40	MAR.	18 21 45	MAR.	26 09 28
APR.	3 10 17	APR.	10 11 21	APR.	17 09 06	APR.	25 04 46
MAY	2 22 04	MAY	9 16 59	MAY	16 21 07	MAY	24 22 50
JUNE	1 07 10	JUNE	7 22 48	JUNE	15 10 19	JUNE	23 14 32
JUNE	30 14 41	JULY	7 05 55	JULY	15 00 54	JULY	23 03 27
JULY	29 21 45	AUG.	5 15 22	AUG.	13 16 35	AUG.	21 13 46
AUG.	28 05 14	SEPT.	4 04 06	SEPT.	12 08 31	SEPT.	19 22 14
SEPT.	26 13 57	OCT.	3 20 32	OCT.	11 23 51	OCT.	19 05 43
OCT.	26 00 33	NOV.	2 16 19	NOV.	10 14 05	NOV.	17 13 06
NOV.	24 13 43	DEC.	2 13 50	DEC.	10 03 13	DEC.	16 21 16
DEC.	24 05 47						

PHASES OF THE MOON

1860

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
	JAN. 1 10 48	JAN. 8 15 24	JAN. 15 06 59
JAN. 23 00 16	JAN. 31 05 11	FEB. 7 02 35	FEB. 13 18 51
FEB. 21 19 39	FEB. 29 19 55	MAR. 7 12 44	MAR. 14 09 09
MAR. 22 13 56	MAR. 30 06 52	APR. 5 22 01	APR. 13 01 35
APR. 21 05 44	APR. 28 14 36	MAY 5 07 01	MAY 12 19 16
MAY 20 18 46	MAY 27 20 05	JUNE 3 16 47	JUNE 11 13 05
JUNE 19 05 24	JUNE 26 00 36	JULY 3 04 07	JULY 11 05 59
JULY 18 14 20	JULY 25 05 40	AUG. 1 17 34	AUG. 9 21 23
AUG. 16 22 21	AUG. 23 12 50	AUG. 31 08 58	SEPT. 8 11 07
SEPT. 15 06 09	SEPT. 21 23 25	SEPT. 30 01 40	OCT. 7 23 05
OCT. 14 14 38	OCT. 21 14 11	OCT. 29 18 50	NOV. 6 09 18
NOV. 13 00 36	NOV. 20 08 53	NOV. 28 11 38	DEC. 5 18 00
DEC. 12 12 48	DEC. 20 06 10	DEC. 28 03 18	

1861

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
			JAN. 4 01 54
JAN. 11 03 27	JAN. 19 04 00	JAN. 26 17 07	FEB. 2 09 59
FEB. 9 20 05	FEB. 18 00 20	FEB. 25 04 43	MAR. 3 19 16
MAR. 11 13 37	MAR. 19 17 31	MAR. 26 14 15	APR. 2 06 24
APR. 10 06 56	APR. 18 06 45	APR. 24 22 24	MAY 1 19 32
MAY 9 23 07	MAY 17 16 04	MAY 24 06 06	MAY 31 10 25
JUNE 8 13 39	JUNE 15 22 16	JUNE 22 14 23	JUNE 30 02 41
JULY 8 02 12	JULY 15 02 48	JULY 22 00 06	JULY 29 19 52
AUG. 6 12 55	AUG. 13 07 16	AUG. 20 11 52	AUG. 28 13 24
SEPT. 4 22 13	SEPT. 11 13 17	SEPT. 19 02 02	SEPT. 27 06 25
OCT. 4 06 58	OCT. 10 22 10	OCT. 18 18 38	OCT. 26 21 54
NOV. 2 16 05	NOV. 9 10 45	NOV. 17 13 07	NOV. 25 11 07
DEC. 2 02 18	DEC. 9 03 10	DEC. 17 08 09	DEC. 24 21 52
DEC. 31 13 55			

1862

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
	JAN. 7 22 47	JAN. 16 01 55	JAN. 23 06 37
JAN. 30 02 50	FEB. 6 20 11	FEB. 14 17 06	FEB. 21 14 17
FEB. 28 16 50	MAR. 8 17 22	MAR. 16 05 17	MAR. 22 21 49
MAR. 30 07 45	APR. 7 12 12	APR. 14 14 58	APR. 21 06 03
APR. 28 23 26	MAY 7 03 24	MAY 13 22 59	MAY 20 15 38
MAY 28 15 26	JUNE 5 14 43	JUNE 12 06 17	JUNE 19 03 13
JUNE 27 06 54	JULY 4 22 51	JULY 11 13 38	JULY 18 17 13
JULY 26 21 05	AUG. 3 04 57	AUG. 9 21 53	AUG. 17 09 47
AUG. 25 09 40	SEPT. 1 10 17	SEPT. 8 07 58	SEPT. 16 04 22
SEPT. 23 20 57	SEPT. 30 16 10	OCT. 7 20 47	OCT. 15 23 42
OCT. 23 07 37	OCT. 29 23 44	NOV. 6 12 49	NOV. 14 18 10
NOV. 21 18 15	NOV. 28 10 02	DEC. 6 07 38	DEC. 14 10 33
DEC. 21 05 04	DEC. 27 23 44		

1863

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
		JAN. 5 03 33	JAN. 13 00 07
JAN. 19 16 02	JAN. 26 16 54	FEB. 3 22 25	FEB. 11 10 46
FEB. 18 03 07	FEB. 25 12 34	MAR. 5 14 46	MAR. 12 18 56
MAR. 19 14 38	MAR. 27 08 58	APR. 4 04 09	APR. 11 01 23
APR. 18 03 05	APR. 26 04 09	MAY 3 14 52	MAY 10 07 16
MAY 17 16 48	MAY 25 20 47	JUNE 1 23 30	JUNE 8 13 53
JUNE 16 07 36	JUNE 24 10 32	JULY 1 06 46	JULY 7 22 29
JULY 15 22 54	JULY 23 21 33	JULY 30 13 33	AUG. 6 10 06
AUG. 14 14 04	AUG. 22 06 19	AUG. 28 20 55	SEPT. 5 01 11
SEPT. 13 04 42	SEPT. 20 13 33	SEPT. 27 06 03	OCT. 4 19 21
OCT. 12 18 43	OCT. 19 20 06	OCT. 26 17 56	NOV. 3 15 34
NOV. 11 07 59	NOV. 18 03 05	NOV. 25 09 02	DEC. 3 12 14
DEC. 10 20 23	DEC. 17 11 46	DEC. 25 02 51	

NEW MOON		FIRST QUARTER		FULL MOON		LAST QUARTER	
	D H M		D H M		D H M		D H M
1864							
						JAN.	2 07 39
JAN.	9 07 46	JAN.	15 23 06	JAN.	23 22 03	FEB.	1 00 17
FEB.	7 18 10	FEB.	14 13 25	FEB.	22 17 01	MAR.	1 13 12
MAR.	8 03 59	MAR.	15 06 07	MAR.	23 10 24	MAR.	30 22 20
APR.	6 13 49	APR.	14 00 08	APR.	22 01 19	APR.	29 04 34
MAY	6 00 13	MAY	13 18 20	MAY	21 13 24	MAY	28 09 21
JUNE	4 11 40	JUNE	12 11 49	JUNE	19 22 54	JUNE	26 14 16
JULY	4 00 24	JULY	12 03 52	JULY	19 06 35	JULY	25 20 45
AUG.	2 14 34	AUG.	10 17 57	AUG.	17 13 37	AUG.	24 06 05
SEPT.	1 06 08	SEPT.	9 05 51	SEPT.	15 21 09	SEPT.	22 18 54
SEPT.	30 22 43	OCT.	8 15 37	OCT.	15 06 15	OCT.	22 11 28
OCT.	30 15 29	NOV.	6 23 53	NOV.	13 17 34	NOV.	21 07 16
NOV.	29 07 17	DEC.	6 07 34	DEC.	13 07 13	DEC.	21 05 03
DEC.	28 21 21						
1865							
		JAN.	4 15 43	JAN.	11 23 00	JAN.	20 02 37
JAN.	27 09 30	FEB.	3 01 08	FEB.	10 16 27	FEB.	18 21 37
FEB.	25 20 03	MAR.	4 12 19	MAR.	12 10 42	MAR.	20 12 36
MAR.	27 05 28	APR.	3 01 19	APR.	11 04 28	APR.	18 23 20
APR.	25 14 14	MAY	2 16 04	MAY	10 20 22	MAY	18 06 39
MAY	24 22 50	JUNE	1 08 21	JUNE	9 09 41	JUNE	16 11 53
JUNE	23 07 57	JULY	1 01 41	JULY	8 20 27	JULY	15 16 27
JULY	22 18 29	JULY	30 19 09	AUG.	7 05 29	AUG.	13 21 43
AUG.	21 07 18	AUG.	29 11 47	SEPT.	5 13 52	SEPT.	12 04 58
SEPT.	19 22 46	SEPT.	28 02 46	OCT.	4 22 32	OCT.	11 15 22
OCT.	19 16 28	OCT.	27 15 50	NOV.	3 08 03	NOV.	10 05 45
NOV.	18 11 01	NOV.	26 02 59	DEC.	2 18 45	DEC.	10 00 13
DEC.	18 04 46	DEC.	25 12 31				
1866							
				JAN.	1 06 48	JAN.	8 21 36
JAN.	16 20 37	JAN.	23 20 54	JAN.	30 20 29	FEB.	7 19 40
FEB.	15 10 13	FEB.	22 04 48	MAR.	1 11 53	MAR.	9 15 53
MAR.	16 21 37	MAR.	23 13 02	MAR.	31 04 31	APR.	8 08 42
APR.	15 07 03	APR.	21 22 31	APR.	29 21 23	MAY	7 21 42
MAY	14 14 58	MAY	21 09 59	MAY	29 13 17	JUNE	6 07 13
JUNE	12 22 07	JUNE	19 23 46	JUNE	28 03 35	JULY	5 14 04
JULY	12 05 35	JULY	19 15 44	JULY	27 16 13	AUG.	3 19 17
AUG.	10 14 36	AUG.	18 09 17	AUG.	26 03 33	SEPT.	2 00 09
SEPT.	9 02 15	SEPT.	17 03 29	SEPT.	24 14 06	OCT.	1 06 09
OCT.	8 16 59	OCT.	16 21 25	OCT.	24 00 13	OCT.	30 14 45
NOV.	7 10 25	NOV.	15 14 07	NOV.	22 10 15	NOV.	29 03 05
DEC.	7 05 25	DEC.	15 04 43	DEC.	21 20 35	DEC.	28 19 23
1867							
JAN.	6 00 30	JAN.	13 16 34	JAN.	20 07 36	JAN.	27 14 48
FEB.	4 18 16	FEB.	12 01 40	FEB.	18 19 41	FEB.	26 11 32
MAR.	6 09 38	MAR.	13 08 47	MAR.	20 08 55	MAR.	28 07 46
APR.	4 22 04	APR.	11 15 09	APR.	18 23 06	APR.	27 02 01
MAY	4 07 40	MAY	10 22 04	MAY	18 13 53	MAY	26 17 22
JUNE	2 15 12	JUNE	9 06 38	JUNE	17 04 55	JUNE	25 05 28
JULY	1 21 49	JULY	8 17 32	JULY	16 19 56	JULY	24 14 33
JULY	31 04 43	AUG.	7 07 09	AUG.	15 10 38	AUG.	22 21 22
AUG.	29 13 05	SEPT.	5 23 31	SEPT.	14 00 34	SEPT.	21 03 09
SEPT.	27 23 41	OCT.	5 18 18	OCT.	13 13 24	OCT.	20 09 17
OCT.	27 13 03	NOV.	4 14 28	NOV.	12 01 09	NOV.	18 17 06
NOV.	26 05 11	DEC.	4 10 21	DEC.	11 12 10	DEC.	18 03 35
DEC.	25 23 39						

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1868							
		JAN.	3 04 03	JAN.	9 22 53	JAN.	16 17 03
JAN.	24 19 19	FEB.	1 18 16	FEB.	8 09 35	FEB.	15 09 16
FEB.	23 14 21	MAR.	2 04 49	MAR.	8 20 22	MAR.	16 03 28
MAR.	24 06 59	MAR.	31 12 25	APR.	7 07 17	APR.	14 22 34
APR.	22 20 19	APR.	29 18 18	MAY	6 18 37	MAY	14 17 16
MAY	22 06 36	MAY	28 23 42	JUNE	5 06 55	JUNE	13 10 13
JUNE	20 14 45	JUNE	27 05 50	JULY	4 20 40	JULY	13 00 41
JULY	19 21 56	JULY	26 13 52	AUG.	3 11 52	AUG.	11 12 28
AUG.	18 05 12	AUG.	25 00 48	SEPT.	2 03 57	SEPT.	9 22 04
SEPT.	16 13 20	SEPT.	23 15 22	OCT.	1 19 58	OCT.	9 06 14
OCT.	15 23 01	OCT.	23 09 42	OCT.	31 11 05	NOV.	7 13 47
NOV.	14 10 56	NOV.	22 06 46	NOV.	30 01 00	DEC.	6 21 34
DEC.	14 01 34	DEC.	22 04 29	DEC.	29 13 47		
1869							
						JAN.	5 06 23
JAN.	12 18 53	JAN.	21 00 26	JAN.	28 01 30	FEB.	3 16 56
FEB.	11 13 54	FEB.	19 17 06	FEB.	26 12 04	MAR.	5 05 43
MAR.	13 08 47	MAR.	21 05 54	MAR.	27 21 33	APR.	3 20 48
APR.	12 01 48	APR.	19 15 05	APR.	26 06 21	MAY	3 13 40
MAY	11 16 08	MAY	18 21 30	MAY	25 15 23	JUNE	2 07 21
JUNE	10 03 53	JUNE	17 02 15	JUNE	24 01 39	JULY	2 00 47
JULY	9 13 38	JULY	16 06 48	JULY	23 13 55	JULY	31 17 07
AUG.	7 22 08	AUG.	14 12 41	AUG.	22 04 24	AUG.	30 07 58
SEPT.	6 06 06	SEPT.	12 21 24	SEPT.	20 20 42	SEPT.	28 21 09
OCT.	5 14 20	OCT.	12 10 03	OCT.	20 13 57	OCT.	28 08 34
NOV.	3 23 36	NOV.	11 02 56	NOV.	19 07 18	NOV.	26 18 15
DEC.	3 10 41	DEC.	10 23 11	DEC.	18 23 51	DEC.	26 02 34
1870							
JAN.	2 00 06	JAN.	9 21 02	JAN.	17 14 45	JAN.	24 10 23
JAN.	31 15 40	FEB.	8 18 19	FEB.	16 03 28	FEB.	22 18 46
MAR.	2 08 41	MAR.	10 13 12	MAR.	17 13 52	MAR.	24 04 38
APR.	1 01 58	APR.	9 04 26	APR.	15 22 26	APR.	22 16 25
APR.	30 18 37	MAY	8 15 37	MAY	15 06 04	MAY	22 06 09
MAY	30 09 57	JUNE	6 23 16	JUNE	13 13 47	JUNE	20 21 33
JUNE	28 23 34	JULY	6 04 31	JULY	12 22 35	JULY	20 14 17
JULY	28 11 18	AUG.	4 08 52	AUG.	11 09 13	AUG.	19 07 50
AUG.	26 21 26	SEPT.	2 13 58	SEPT.	9 22 11	SEPT.	18 01 30
SEPT.	25 06 33	OCT.	1 21 19	OCT.	9 13 43	OCT.	17 18 13
OCT.	24 15 36	OCT.	31 08 02	NOV.	8 07 32	NOV.	16 08 59
NOV.	23 01 21	NOV.	29 22 33	DEC.	8 02 39	DEC.	15 21 10
DEC.	22 12 19	DEC.	29 16 38				
1871							
				JAN.	6 21 24	JAN.	14 06 57
JAN.	21 00 32	JAN.	28 13 14	FEB.	5 14 02	FEB.	12 15 00
FEB.	19 13 49	FEB.	27 10 39	MAR.	7 03 39	MAR.	13 22 20
MAR.	21 04 00	MAR.	29 06 45	APR.	5 14 23	APR.	12 05 52
APR.	19 19 04	APR.	27 23 47	MAY	4 23 00	MAY	11 14 23
MAY	19 10 45	MAY	27 13 02	JUNE	3 06 27	JUNE	10 00 37
JUNE	18 02 29	JUNE	25 22 45	JULY	2 13 37	JULY	9 13 09
JULY	17 17 27	JULY	25 05 51	JULY	31 21 16	AUG.	8 04 24
AUG.	16 07 02	AUG.	23 11 35	AUG.	30 06 21	SEPT.	6 22 10
SEPT.	14 19 09	SEPT.	21 17 12	SEPT.	28 17 45	OCT.	6 17 32
OCT.	14 06 19	OCT.	20 23 55	OCT.	28 08 14	NOV.	5 12 55
NOV.	12 17 09	NOV.	19 08 47	NOV.	27 01 54	DEC.	5 06 46
DEC.	12 04 02	DEC.	18 20 41	DEC.	26 21 34		

PHASES OF THE MOON

1872

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	10 14 58	JAN.	17 12 03	JAN.	25 17 14	JAN.	3 21 59
FEB.	9 01 52	FEB.	16 06 24	FEB.	24 10 56	FEB.	2 10 10
MAR.	9 12 54	MAR.	17 02 25	MAR.	25 01 43	MAR.	2 19 29
APR.	8 00 32	APR.	15 22 11	APR.	23 13 37	APR.	1 02 32
MAY	7 13 19	MAY	15 16 06	MAY	22 23 08	APR.	30 08 21
JUNE	6 03 23	JUNE	14 07 19	JUNE	21 06 58	MAY	29 14 13
JULY	5 18 25	JULY	13 19 48	JULY	20 13 53	JUNE	27 21 28
AUG.	4 09 46	AUG.	12 05 53	AUG.	18 20 54	JULY	27 07 19
SEPT.	3 00 53	SEPT.	10 14 03	SEPT.	17 05 05	AUG.	25 20 35
OCT.	2 15 31	OCT.	9 21 04	OCT.	16 15 35	SEPT.	24 13 21
NOV.	1 05 28	NOV.	8 03 51	NOV.	15 05 08	OCT.	24 08 54
NOV.	30 18 35	DEC.	7 11 36	DEC.	14 21 44	NOV.	23 05 46
DEC.	30 06 37					DEC.	23 02 12

1873

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	28 17 27	JAN.	5 21 27	JAN.	13 16 23	JAN.	21 20 31
FEB.	27 03 22	FEB.	4 10 06	FEB.	12 11 33	FEB.	20 11 24
MAR.	28 12 55	MAR.	6 01 25	MAR.	14 05 45	MAR.	21 22 19
APR.	26 22 42	APR.	4 18 36	APR.	12 21 51	APR.	20 05 47
MAY	26 09 20	MAY	4 12 32	MAY	12 11 18	MAY	19 11 00
JUNE	24 21 13	JUNE	3 06 20	JUNE	10 22 01	JUNE	17 15 32
JULY	24 10 34	JULY	2 23 11	JULY	10 06 33	JULY	16 20 58
AUG.	23 01 30	AUG.	1 14 29	AUG.	8 13 53	AUG.	15 04 42
SEPT.	21 17 51	AUG.	31 03 49	SEPT.	6 21 09	SEPT.	13 15 41
OCT.	21 10 56	SEPT.	29 14 56	OCT.	6 05 32	OCT.	13 06 26
NOV.	20 03 36	OCT.	29 00 10	NOV.	4 15 48	NOV.	12 00 48
DEC.	19 18 49	NOV.	27 08 13	DEC.	4 04 20	DEC.	11 21 54
		DEC.	26 16 05				

1874

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	18 08 00	JAN.	25 00 42	JAN.	2 19 03	JAN.	10 19 56
FEB.	16 19 15	FEB.	23 10 45	FEB.	1 11 36	FEB.	9 16 29
MAR.	18 05 02	MAR.	24 22 31	MAR.	3 05 22	MAR.	11 09 34
APR.	16 13 52	APR.	23 12 04	APR.	1 23 19	APR.	9 22 20
MAY	15 22 17	MAY	23 03 19	MAY	1 16 09	MAY	9 07 13
JUNE	14 06 52	JUNE	21 20 01	MAY	31 06 46	JUNE	7 13 18
JULY	13 16 28	JULY	21 13 32	JUNE	29 18 48	JULY	6 18 02
AUG.	12 04 00	AUG.	20 06 54	JULY	29 04 43	AUG.	4 22 47
SEPT.	10 18 11	SEPT.	18 23 06	AUG.	27 13 29	SEPT.	3 04 54
OCT.	10 11 02	OCT.	18 13 29	SEPT.	25 22 07	OCT.	2 13 38
NOV.	9 05 34	NOV.	17 01 53	OCT.	25 07 21	NOV.	1 02 00
DEC.	9 00 07	DEC.	16 12 25	NOV.	23 17 34	NOV.	30 18 30
				DEC.	23 04 56	DEC.	30 14 36

1875

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	7 17 08	JAN.	14 21 22	JAN.	21 17 41	JAN.	29 12 33
FEB.	6 07 55	FEB.	13 05 20	FEB.	20 08 02	FEB.	28 09 52
MAR.	7 20 21	MAR.	14 13 05	MAR.	21 23 52	MAR.	30 04 25
APR.	6 06 36	APR.	12 21 34	APR.	20 16 30	APR.	28 19 17
MAY	5 15 04	MAY	12 07 37	MAY	20 08 51	MAY	28 06 30
JUNE	3 22 21	JUNE	10 19 55	JUNE	18 23 56	JUNE	26 14 39
JULY	3 05 25	JULY	10 10 40	JULY	18 13 27	JULY	25 20 39
AUG.	1 13 28	AUG.	9 03 30	AUG.	17 01 35	AUG.	24 01 39
AUG.	30 23 42	SEPT.	7 21 38	SEPT.	15 12 42	SEPT.	22 07 01
SEPT.	29 12 55	OCT.	7 16 06	OCT.	14 23 15	OCT.	21 14 13
OCT.	29 05 13	NOV.	6 09 52	NOV.	13 09 31	NOV.	20 00 37
NOV.	27 23 44	DEC.	6 01 56	DEC.	12 19 46	DEC.	19 14 56
DEC.	27 19 04						

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
1876			
	JAN. 4 15 24	JAN. 11 06 23	JAN. 18 08 50
JAN. 26 13 41	FEB. 3 01 54	FEB. 9 17 47	FEB. 17 04 56
FEB. 25 06 21	MAR. 3 09 47	MAR. 10 06 12	MAR. 18 01 25
MAR. 25 20 12	APR. 1 16 11	APR. 8 19 39	APR. 16 20 38
APR. 24 07 03	APR. 30 22 27	MAY 8 09 53	MAY 16 13 26
MAY 23 15 25	MAY 30 05 49	JUNE 7 00 38	JUNE 15 03 14
JUNE 21 22 17	JUNE 28 15 15	JULY 6 15 38	JULY 14 13 56
JULY 21 04 53	JULY 28 03 20	AUG. 5 06 38	AUG. 12 21 58
AUG. 19 12 26	AUG. 26 18 18	SEPT. 3 21 13	SEPT. 11 04 21
SEPT. 17 21 54	SEPT. 25 12 04	OCT. 3 10 56	OCT. 10 10 20
OCT. 17 09 57	OCT. 25 07 55	NOV. 1 23 31	NOV. 8 17 17
NOV. 16 00 48	NOV. 24 04 27	DEC. 1 11 04	DEC. 8 02 23
DEC. 15 18 13	DEC. 23 23 42	DEC. 30 21 59	
1877			
			JAN. 6 14 17
JAN. 14 13 28	JAN. 22 15 53	JAN. 29 08 39	FEB. 5 05 00
FEB. 13 08 59	FEB. 21 04 15	FEB. 27 19 14	MAR. 6 22 01
MAR. 15 02 54	MAR. 22 13 09	MAR. 29 05 49	APR. 5 16 30
APR. 13 17 50	APR. 20 19 37	APR. 27 16 36	MAY 5 11 19
MAY 13 05 29	MAY 20 00 57	MAY 27 04 05	JUNE 4 05 11
JUNE 11 14 32	JUNE 18 06 24	JUNE 25 16 54	JULY 3 21 02
JULY 10 22 06	JULY 17 13 13	JULY 25 07 20	AUG. 2 10 21
AUG. 9 05 17	AUG. 15 22 29	AUG. 23 23 10	AUG. 31 21 16
SEPT. 7 13 01	SEPT. 14 11 09	SEPT. 22 15 35	SEPT. 30 06 21
OCT. 6 21 59	OCT. 14 03 43	OCT. 22 07 30	OCT. 29 14 21
NOV. 5 08 49	NOV. 12 23 44	NOV. 20 22 20	NOV. 27 22 06
DEC. 4 22 04	DEC. 12 21 34	DEC. 20 11 51	DEC. 27 06 20
1878			
JAN. 3 14 03	JAN. 11 18 46	JAN. 19 00 11	JAN. 25 15 49
FEB. 2 08 17	FEB. 10 13 17	FEB. 17 11 16	FEB. 24 03 13
MAR. 4 03 18	MAR. 12 04 01	MAR. 18 21 06	MAR. 25 16 50
APR. 2 21 15	APR. 10 14 55	APR. 17 05 57	APR. 24 08 33
MAY 2 12 51	MAY 9 22 32	MAY 16 14 32	MAY 24 01 42
JUNE 1 01 48	JUNE 8 03 55	JUNE 14 23 51	JUNE 22 19 16
JUNE 30 12 31	JULY 7 08 20	JULY 14 10 55	JULY 22 12 16
JULY 29 21 40	AUG. 5 13 19	AUG. 13 00 17	AUG. 21 04 08
AUG. 28 05 59	SEPT. 3 20 26	SEPT. 11 15 50	SEPT. 19 18 31
SEPT. 26 14 10	OCT. 3 07 01	OCT. 11 08 54	OCT. 19 07 10
OCT. 25 22 59	NOV. 1 21 51	NOV. 10 02 34	NOV. 17 17 58
NOV. 24 09 10	DEC. 1 16 38	DEC. 9 19 51	DEC. 17 03 04
DEC. 23 21 25	DEC. 31 13 57		
1879			
		JAN. 8 11 48	JAN. 15 11 02
JAN. 22 11 51	JAN. 30 11 45	FEB. 7 01 41	FEB. 13 18 54
FEB. 21 04 03	MAR. 1 07 58	MAR. 8 13 09	MAR. 15 03 41
MAR. 22 21 04	MAR. 31 01 04	APR. 6 22 24	APR. 13 14 09
APR. 21 13 55	APR. 29 14 16	MAY 6 06 12	MAY 13 02 36
MAY 21 05 50	MAY 28 23 37	JUNE 4 13 36	JUNE 11 16 55
JUNE 19 20 20	JUNE 27 05 56	JULY 3 21 38	JULY 11 08 55
JULY 19 09 06	JULY 26 10 36	AUG. 2 07 12	AUG. 10 02 09
AUG. 17 20 11	AUG. 24 15 12	AUG. 31 18 58	SEPT. 8 20 05
SEPT. 16 05 56	SEPT. 22 21 20	SEPT. 30 09 17	OCT. 8 13 43
OCT. 15 15 09	OCT. 22 06 18	OCT. 30 02 09	NOV. 7 05 56
NOV. 14 00 38	NOV. 20 18 56	NOV. 28 20 58	DEC. 6 19 43
DEC. 13 11 04	DEC. 20 11 16	DEC. 28 16 16	

PHASES OF THE MOON

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
1880															
												JAN.	5	06	49
JAN.	11	22	40	JAN.	19	06	40	JAN.	27	10	13	FEB.	3	15	38
FEB.	10	11	18	FEB.	18	03	46	FEB.	26	01	22	MAR.	3	23	06
MAR.	11	00	47	MAR.	19	00	36	MAR.	26	13	23	APR.	2	06	13
APR.	9	15	07	APR.	17	19	15	APR.	24	22	51	MAY	1	13	53
MAY	9	06	16	MAY	17	10	24	MAY	24	06	38	MAY	30	22	53
JUNE	7	21	55	JUNE	15	21	52	JUNE	22	13	45	JUNE	29	09	57
JULY	7	13	21	JULY	15	06	16	JULY	21	21	02	JULY	28	23	41
AUG.	6	03	49	AUG.	13	12	42	AUG.	20	05	19	AUG.	27	16	15
SEPT.	4	16	52	SEPT.	11	18	24	SEPT.	18	15	30	SEPT.	26	11	09
OCT.	4	04	43	OCT.	11	00	35	OCT.	18	04	27	OCT.	26	07	01
NOV.	2	15	55	NOV.	9	08	20	NOV.	16	20	39	NOV.	25	02	06
DEC.	2	02	57	DEC.	8	18	39	DEC.	16	15	37	DEC.	24	18	57
DEC.	31	13	56												
1881															
				JAN.	7	08	09	JAN.	15	11	40	JAN.	23	08	57
JAN.	30	00	48	FEB.	6	00	55	FEB.	14	06	24	FEB.	21	19	31
FEB.	28	11	32	MAR.	7	20	02	MAR.	15	22	36	MAR.	23	03	30
MAR.	29	22	32	APR.	6	15	54	APR.	14	11	50	APR.	21	09	38
APR.	28	10	25	MAY	6	10	45	MAY	13	22	24	MAY	20	15	07
MAY	27	23	36	JUNE	5	03	20	JUNE	12	06	57	JUNE	18	21	19
JUNE	26	14	04	JULY	4	17	17	JULY	11	14	14	JULY	18	05	34
JULY	26	05	20	AUG.	3	04	43	AUG.	9	21	07	AUG.	16	16	58
AUG.	24	20	46	SEPT.	1	14	02	SEPT.	8	04	39	SEPT.	15	08	02
SEPT.	23	11	55	SEPT.	30	21	49	OCT.	7	13	59	OCT.	15	02	26
OCT.	23	02	31	OCT.	30	04	47	NOV.	6	02	03	NOV.	13	23	02
NOV.	21	16	21	NOV.	28	12	02	DEC.	5	17	14	DEC.	13	20	05
DEC.	21	05	07	DEC.	27	20	42								
1882															
								JAN.	4	10	59	JAN.	12	15	48
JAN.	19	16	35	JAN.	26	07	45	FEB.	3	05	58	FEB.	11	08	35
FEB.	18	02	50	FEB.	24	21	31	MAR.	5	00	40	MAR.	12	21	28
MAR.	19	12	17	MAR.	26	13	33	APR.	3	17	47	APR.	11	06	30
APR.	17	21	39	APR.	25	06	56	MAY	3	08	31	MAY-	10	12	35
MAY	17	07	33	MAY	25	00	42	JUNE	1	20	34	JUNE	8	17	10
JUNE	15	18	33	JUNE	23	18	02	JULY	1	06	09	JULY	7	21	52
JULY	15	07	02	JULY	23	10	18	JULY	30	14	02	AUG.	6	04	14
AUG.	13	21	11	AUG.	22	00	55	AUG.	28	21	20	SEPT.	4	13	27
SEPT.	12	12	59	SEPT.	20	13	28	SEPT.	27	05	10	OCT.	4	02	18
OCT.	12	06	02	OCT.	19	23	54	OCT.	26	14	34	NOV.	2	18	58
NOV.	10	23	20	NOV.	18	08	42	NOV.	25	02	03	DEC.	2	14	57
DEC.	10	15	38	DEC.	17	16	40	DEC.	24	15	42				
1883															
												JAN.	1	12	50
JAN.	9	05	59	JAN.	16	00	47	JAN.	23	07	15	JAN.	31	10	27
FEB.	7	18	10	FEB.	14	09	54	FEB.	22	00	18	MAR.	2	05	27
MAR.	9	04	31	MAR.	15	20	31	MAR.	23	18	05	MAR.	31	20	21
APR.	7	13	36	APR.	14	08	49	APR.	22	11	27	APR.	30	07	03
MAY	6	21	58	MAY	13	22	54	MAY	22	03	12	MAY	29	14	23
JUNE	5	06	12	JUNE	12	14	41	JUNE	20	16	32	JUNE	27	19	37
JULY	4	15	04	JULY	12	07	49	JULY	20	03	31	JULY	27	00	14
AUG.	3	01	26	AUG.	11	01	29	AUG.	18	12	54	AUG.	25	05	32
SEPT.	1	14	14	SEPT.	9	18	37	SEPT.	16	21	41	SEPT.	23	12	51
OCT.	1	05	54	OCT.	9	10	20	OCT.	16	06	45	OCT.	22	23	19
OCT.	30	23	57	NOV.	8	00	04	NOV.	14	16	37	NOV.	21	13	44
NOV.	29	18	55	DEC.	7	11	46	DEC.	14	03	28	DEC.	21	08	09
DEC.	29	13	00												

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
1884			
	JAN. 5 21 35	JAN. 12 15 27	JAN. 20 05 23
JAN. 28 05 01	FEB. 4 05 57	FEB. 11 04 48	FEB. 19 03 13
FEB. 26 18 35	MAR. 4 13 33	MAR. 11 19 40	MAR. 19 23 13
MAR. 27 05 47	APR. 2 21 17	APR. 10 11 44	APR. 18 15 54
APR. 25 14 57	MAY 2 06 07	MAY 10 04 07	MAY 18 04 54
MAY 24 22 37	MAY 31 16 56	JUNE 8 19 49	JUNE 16 14 35
JUNE 23 05 33	JUNE 30 06 15	JULY 8 10 11	JULY 15 21 39
JULY 22 12 54	JULY 29 22 02	AUG. 6 23 06	AUG. 14 03 08
AUG. 20 21 54	AUG. 28 15 42	SEPT. 5 10 56	SEPT. 12 08 17
SEPT. 19 09 37	SEPT. 27 10 21	OCT. 4 22 00	OCT. 11 14 29
OCT. 19 00 31	OCT. 27 04 55	NOV. 3 08 37	NOV. 9 23 12
NOV. 17 18 12	NOV. 25 22 16	DEC. 2 19 00	DEC. 9 11 31
DEC. 17 13 24	DEC. 25 13 21		
1885			
		JAN. 1 05 26	JAN. 8 03 36
JAN. 16 08 37	JAN. 24 01 27	JAN. 30 16 19	FEB. 6 22 37
FEB. 15 02 21	FEB. 22 10 30	MAR. 1 04 00	MAR. 8 18 54
MAR. 16 17 37	MAR. 23 17 23	MAR. 30 16 40	APR. 7 14 43
APR. 15 05 52	APR. 21 23 20	APR. 29 06 14	MAY 7 08 42
MAY 14 15 17	MAY 21 05 45	MAY 28 20 31	JUNE 6 00 05
JUNE 12 22 42	JUNE 19 13 48	JUNE 27 11 18	JULY 5 12 26
JULY 12 05 16	JULY 19 00 21	JULY 27 02 23	AUG. 3 21 55
AUG. 10 12 14	AUG. 17 13 47	AUG. 25 17 25	SEPT. 2 05 14
SEPT. 8 20 43	SEPT. 16 06 15	SEPT. 24 07 54	OCT. 1 11 29
OCT. 8 07 31	OCT. 16 01 21	OCT. 23 21 22	OCT. 30 17 58
NOV. 6 21 02	NOV. 14 21 59	NOV. 22 09 39	NOV. 29 01 57
DEC. 6 13 16	DEC. 14 18 21	DEC. 21 20 59	DEC. 28 12 22
1886			
JAN. 5 07 43	JAN. 13 12 24	JAN. 20 07 44	JAN. 27 01 31
FEB. 4 03 14	FEB. 12 02 46	FEB. 18 18 14	FEB. 25 17 11
MAR. 5 22 04	MAR. 13 13 17	MAR. 20 04 36	MAR. 27 10 44
APR. 4 14 30	APR. 11 20 44	APR. 18 14 59	APR. 26 05 15
MAY 4 03 42	MAY 11 02 20	MAY 18 01 47	MAY 25 23 36
JUNE 2 13 55	JUNE 9 07 27	JUNE 16 13 39	JUNE 24 16 35
JULY 1 22 07	JULY 8 13 18	JULY 16 03 09	JULY 24 07 21
JULY 31 05 25	AUG. 6 21 06	AUG. 14 18 24	AUG. 22 19 41
AUG. 29 12 54	SEPT. 5 07 56	SEPT. 13 10 50	SEPT. 21 05 56
SEPT. 27 21 19	OCT. 4 22 33	OCT. 13 03 24	OCT. 20 14 41
OCT. 27 07 15	NOV. 3 17 04	NOV. 11 19 06	NOV. 18 22 40
NOV. 25 19 19	DEC. 3 14 25	DEC. 11 09 30	DEC. 18 06 39
DEC. 25 09 55			
1887			
	JAN. 2 12 20	JAN. 9 22 32	JAN. 16 15 22
JAN. 24 03 01	FEB. 1 08 27	FEB. 8 10 14	FEB. 15 01 32
FEB. 22 21 40	MAR. 3 01 07	MAR. 9 20 33	MAR. 16 13 42
MAR. 24 16 10	APR. 1 13 52	APR. 8 05 38	APR. 15 04 04
APR. 23 08 53	APR. 30 23 00	MAY 7 14 01	MAY 14 20 17
MAY 22 23 06	MAY 30 05 20	JUNE 5 22 39	JUNE 13 13 34
JUNE 21 10 53	JUNE 28 10 01	JULY 5 08 34	JULY 13 06 58
JULY 20 20 50	JULY 27 14 30	AUG. 3 20 40	AUG. 11 23 37
AUG. 19 05 38	AUG. 25 20 21	SEPT. 2 11 13	SEPT. 10 15 03
SEPT. 17 13 59	SEPT. 24 05 04	OCT. 2 03 47	OCT. 10 04 57
OCT. 16 22 35	OCT. 23 17 46	OCT. 31 21 31	NOV. 8 17 02
NOV. 15 08 09	NOV. 22 10 43	NOV. 30 15 20	DEC. 8 03 10
DEC. 14 19 21	DEC. 22 07 01	DEC. 30 08 14	

PHASES OF THE MOON

1888

NEW MOON (D H M)	FIRST QUARTER (D H M)	FULL MOON (D H M)	LAST QUARTER (D H M)
			JAN. 6 11 42
JAN. 13 08 39	JAN. 21 04 49	JAN. 28 23 19	FEB. 4 19 26
FEB. 11 23 52	FEB. 20 01 59	FEB. 27 11 57	MAR. 5 03 26
MAR. 12 16 21	MAR. 20 20 43	MAR. 27 22 07	APR. 3 12 41
APR. 11 09 08	APR. 19 11 51	APR. 26 06 21	MAY 2 23 47
MAY 11 01 23	MAY 18 23 05	MAY 25 13 40	JUNE 1 12 53
JUNE 9 16 33	JUNE 17 06 49	JUNE 23 21 08	JULY 1 03 52
JULY 9 06 17	JULY 16 12 12	JULY 23 05 45	JULY 30 20 30
AUG. 7 18 21	AUG. 14 16 44	AUG. 21 16 20	AUG. 29 14 18
SEPT. 6 04 56	SEPT. 12 22 00	SEPT. 20 05 24	SEPT. 28 08 30
OCT. 5 14 34	OCT. 12 05 29	OCT. 19 21 09	OCT. 28 01 56
NOV. 4 00 03	NOV. 10 16 16	NOV. 18 15 15	NOV. 26 17 20
DEC. 3 10 06	DEC. 10 06 46	DEC. 18 10 41	DEC. 26 05 59

1889

NEW MOON (D H M)	FIRST QUARTER (D H M)	FULL MOON (D H M)	LAST QUARTER (D H M)
JAN. 1 21 08	JAN. 9 00 40	JAN. 17 05 37	JAN. 24 15 57
JAN. 31 09 10	FEB. 7 20 57	FEB. 15 22 17	FEB. 22 23 55
MAR. 1 22 00	MAR. 9 17 59	MAR. 17 11 47	MAR. 24 06 54
MAR. 31 11 37	APR. 8 13 47	APR. 15 22 18	APR. 22 13 56
APR. 30 02 05	MAY 8 06 42	MAY 15 06 42	MAY 21 21 53
MAY 29 17 19	JUNE 6 20 02	JUNE 13 13 58	JUNE 20 07 35
JUNE 28 08 54	JULY 6 05 58	JULY 12 21 02	JULY 19 19 44
JULY 28 00 01	AUG. 4 13 27	AUG. 11 04 42	AUG. 18 10 52
AUG. 26 14 00	SEPT. 2 19 35	SEPT. 9 13 52	SEPT. 17 04 49
SEPT. 25 02 41	OCT. 2 01 33	OCT. 9 01 25	OCT. 17 00 38
OCT. 24 14 26	OCT. 31 08 31	NOV. 7 16 05	NOV. 15 20 35
NOV. 23 01 43	NOV. 29 17 28	DEC. 7 09 52	DEC. 15 14 58
DEC. 22 12 52	DEC. 29 05 16		

1890

NEW MOON (D H M)	FIRST QUARTER (D H M)	FULL MOON (D H M)	LAST QUARTER (D H M)
		JAN. 6 05 36	JAN. 14 06 32
JAN. 20 23 49	JAN. 27 20 16	FEB. 5 01 13	FEB. 12 18 52
FEB. 19 10 28	FEB. 26 14 06	MAR. 6 18 48	MAR. 14 04 05
MAR. 20 21 02	MAR. 28 09 33	APR. 5 09 24	APR. 12 10 53
APR. 19 08 06	APR. 27 04 52	MAY 4 21 09	MAY 11 16 22
MAY 18 20 19	MAY 26 22 33	JUNE 3 06 34	JUNE 9 21 50
JUNE 17 09 58	JUNE 25 13 54	JULY 2 14 23	JULY 9 04 43
JULY 17 00 50	JULY 25 02 45	JULY 31 21 24	AUG. 7 14 19
AUG. 15 16 20	AUG. 23 13 20	AUG. 30 04 35	SEPT. 6 03 30
SEPT. 14 07 53	SEPT. 21 22 05	SEPT. 28 13 00	OCT. 5 20 23
OCT. 13 23 04	OCT. 21 05 36	OCT. 27 23 42	NOV. 4 16 13
NOV. 12 13 37	NOV. 19 12 45	NOV. 26 13 23	DEC. 4 13 26
DEC. 12 03 11	DEC. 18 20 37	DEC. 26 05 57	

1891

NEW MOON (D H M)	FIRST QUARTER (D H M)	FULL MOON (D H M)	LAST QUARTER (D H M)
			JAN. 3 10 12
JAN. 10 15 25	JAN. 17 06 18	JAN. 25 00 25	FEB. 2 04 42
FEB. 9 02 12	FEB. 15 18 30	FEB. 23 19 19	MAR. 3 19 37
MAR. 10 11 50	MAR. 17 09 11	MAR. 25 13 11	APR. 2 06 31
APR. 8 20 57	APR. 16 01 40	APR. 24 05 05	MAY 1 13 51
MAY 8 06 16	MAY 15 19 04	MAY 23 18 26	MAY 30 18 54
JUNE 6 16 26	JUNE 14 12 34	JUNE 22 05 12	JUNE 28 23 16
JULY 6 03 59	JULY 14 05 29	JULY 21 13 54	JULY 28 04 33
AUG. 4 17 12	AUG. 12 21 12	AUG. 19 21 29	AUG. 26 12 09
SEPT. 3 08 16	SEPT. 11 11 07	SEPT. 18 05 04	SEPT. 24 23 07
OCT. 3 00 58	OCT. 10 22 56	OCT. 17 13 45	OCT. 24 13 57
NOV. 1 18 33	NOV. 9 08 46	NOV. 16 00 16	NOV. 23 08 26
DEC. 1 11 46	DEC. 8 17 13	DEC. 15 12 52	DEC. 23 05 39
DEC. 31 03 20			

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
1892															
				JAN.	7	01	12	JAN.	14	03	27	JAN.	22	03	43
JAN.	29	16	38	FEB.	5	09	39	FEB.	12	19	38	FEB.	21	00	15
FEB.	28	03	47	MAR.	5	19	14	MAR.	13	12	55	MAR.	21	17	16
MAR.	28	13	18	APR.	4	06	21	APR.	12	06	26	APR.	20	06	00
APR.	26	21	47	MAY	3	19	12	MAY	11	22	58	MAY	19	14	53
MAY	26	05	49	JUNE	2	09	50	JUNE	10	13	31	JUNE	17	21	01
JUNE	24	14	07	JULY	2	02	12	JULY	10	01	43	JULY	17	01	48
JULY	23	23	30	JULY	31	19	45	AUG.	8	11	57	AUG.	15	06	38
AUG.	22	10	59	AUG.	30	13	29	SEPT.	6	21	08	SEPT.	13	12	50
SEPT.	21	01	16	SEPT.	29	06	19	OCT.	6	06	12	OCT.	12	21	37
OCT.	20	18	24	OCT.	28	21	26	NOV.	4	15	49	NOV.	11	10	02
NOV.	19	13	19	NOV.	27	10	28	DEC.	4	02	17	DEC.	11	02	30
DEC.	19	08	13	DEC.	26	21	23								
1893															
								JAN.	2	13	41	JAN.	9	22	29
JAN.	18	01	27	JAN.	25	06	27	FEB.	1	02	11	FEB.	8	20	12
FEB.	16	16	17	FEB.	23	14	14	MAR.	2	16	03	MAR.	10	17	13
MAR.	18	04	33	MAR.	24	21	34	APR.	1	07	17	APR.	9	11	35
APR.	16	14	35	APR.	23	05	26	APR.	30	23	23	MAY	9	02	23
MAY	15	22	47	MAY	22	14	52	MAY	30	15	22	JUNE	7	13	43
JUNE	14	05	51	JUNE	21	02	38	JUNE	29	06	25	JULY	6	22	06
JULY	13	12	48	JULY	20	17	02	JULY	28	20	09	AUG.	5	04	23
AUG.	11	20	48	AUG.	19	09	51	AUG.	27	08	43	SEPT.	3	09	42
SEPT.	10	07	05	SEPT.	18	04	19	SEPT.	25	20	23	OCT.	2	15	19
OCT.	9	20	27	OCT.	17	23	20	OCT.	25	07	28	OCT.	31	22	42
NOV.	8	12	57	NOV.	16	17	44	NOV.	23	18	09	NOV.	30	09	08
DEC.	8	07	40	DEC.	16	10	21	DEC.	23	04	36	DEC.	29	23	17
1894															
JAN.	7	03	07	JAN.	15	00	09	JAN.	21	15	11	JAN.	28	16	51
FEB.	5	21	45	FEB.	13	10	43	FEB.	20	02	17	FEB.	27	12	28
MAR.	7	14	18	MAR.	14	18	28	MAR.	21	14	11	MAR.	29	08	28
APR.	6	03	59	APR.	13	00	32	APR.	20	03	01	APR.	28	03	21
MAY	5	14	42	MAY	12	06	21	MAY	19	16	43	MAY	27	20	04
JUNE	3	22	56	JUNE	10	13	14	JUNE	18	07	06	JUNE	26	10	02
JULY	3	05	45	JULY	9	22	15	JULY	17	22	02	JULY	25	21	07
AUG.	1	12	24	AUG.	8	10	06	AUG.	16	13	17	AUG.	24	05	39
AUG.	30	20	04	SEPT.	7	01	03	SEPT.	15	04	21	SEPT.	22	12	32
SEPT.	29	05	44	OCT.	6	19	00	OCT.	14	18	40	OCT.	21	18	56
OCT.	28	17	57	NOV.	5	15	16	NOV.	13	07	48	NOV.	20	02	09
NOV.	27	08	54	DEC.	5	12	15	DEC.	12	19	46	DEC.	19	11	15
DEC.	27	02	19												
1895															
				JAN.	4	07	52	JAN.	11	06	49	JAN.	17	22	55
JAN.	25	21	26	FEB.	3	00	16	FEB.	9	17	23	FEB.	16	13	09
FEB.	24	16	43	MAR.	4	12	40	MAR.	11	03	37	MAR.	18	05	32
MAR.	26	10	25	APR.	2	21	28	APR.	9	13	43	APR.	16	23	22
APR.	25	01	10	MAY	2	03	44	MAY	8	23	59	MAY	16	17	43
MAY	24	12	46	MAY	31	08	48	JUNE	7	11	00	JUNE	15	11	27
JUNE	22	21	51	JUNE	29	14	00	JULY	6	23	29	JULY	15	03	31
JULY	22	05	31	JULY	28	20	36	AUG.	5	13	51	AUG.	13	17	18
AUG.	20	12	55	AUG.	27	05	43	SEPT.	4	05	55	SEPT.	12	04	50
SEPT.	18	20	55	SEPT.	25	18	22	OCT.	3	22	47	OCT.	11	14	34
OCT.	18	06	10	OCT.	25	11	03	NOV.	2	15	17	NOV.	9	23	07
NOV.	16	17	12	NOV.	24	07	18	DEC.	2	06	38	DEC.	9	07	09
DEC.	16	06	30	DEC.	24	05	21	DEC.	31	20	31				

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
1896			
			JAN. 7 15 25
JAN. 14 22 19	JAN. 23 02 42	JAN. 30 08 55	FEB. 6 00 38
FEB. 13 16 12	FEB. 21 21 14	FEB. 28 19 51	MAR. 6 11 29
MAR. 14 10 48	MAR. 22 11 56	MAR. 29 05 20	APR. 5 00 24
APR. 13 04 23	APR. 20 22 47	APR. 27 13 47	MAY 4 15 25
MAY 12 19 46	MAY 20 06 20	MAY 26 21 56	JUNE 3 08 02
JUNE 11 08 43	JUNE 18 11 40	JUNE 25 06 55	JULY 3 01 23
JULY 10 19 35	JULY 17 16 04	JULY 24 17 45	AUG. 1 18 34
AUG. 9 05 02	AUG. 15 21 03	AUG. 23 07 05	AUG. 31 10 56
SEPT. 7 13 43	SEPT. 14 04 09	SEPT. 21 22 50	SEPT. 30 01 58
OCT. 6 22 18	OCT. 13 14 47	OCT. 21 16 17	OCT. 29 15 20
NOV. 5 07 27	NOV. 12 05 40	NOV. 20 10 24	NOV. 28 02 43
DEC. 4 17 51	DEC. 12 00 29	DEC. 20 04 05	DEC. 27 12 08
1897			
JAN. 3 06 03	JAN. 10 21 46	JAN. 18 20 17	JAN. 25 20 08
FEB. 1 20 13	FEB. 9 19 26	FEB. 17 10 11	FEB. 24 03 43
MAR. 3 11 56	MAR. 11 15 28	MAR. 18 21 28	MAR. 25 12 00
APR. 2 04 23	APR. 10 08 26	APR. 17 06 25	APR. 23 21 47
MAY 1 20 46	MAY 9 21 37	MAY 16 13 54	MAY 23 09 34
MAY 31 12 26	JUNE 8 07 02	JUNE 14 21 01	JUNE 21 23 23
JUNE 30 02 56	JULY 7 13 32	JULY 14 04 52	JULY 21 15 07
JULY 29 15 57	AUG. 5 18 24	AUG. 12 14 22	AUG. 20 08 29
AUG. 28 03 29	SEPT. 3 23 12	SEPT. 11 02 12	SEPT. 19 02 51
SEPT. 26 13 46	OCT. 3 05 31	OCT. 10 16 42	OCT. 18 21 08
OCT. 25 23 28	NOV. 1 14 36	NOV. 9 09 50	NOV. 17 14 02
NOV. 24 09 20	DEC. 1 03 14	DEC. 9 04 54	DEC. 17 04 21
DEC. 23 19 55	DEC. 30 19 27		
1898			
		JAN. 8 00 24	JAN. 15 15 44
JAN. 22 07 25	JAN. 29 14 32	FEB. 6 18 24	FEB. 14 00 35
FEB. 20 19 40	FEB. 28 11 13	MAR. 8 09 29	MAR. 15 07 48
MAR. 22 08 37	MAR. 30 07 40	APR. 6 21 20	APR. 13 14 28
APR. 20 22 20	APR. 29 02 04	MAY 6 06 33	MAY 12 21 35
MAY 20 12 57	MAY 28 17 13	JUNE 4 14 11	JUNE 11 06 04
JUNE 19 04 19	JUNE 27 04 54	JULY 3 21 12	JULY 10 16 42
JULY 18 19 47	JULY 26 13 40	AUG. 2 04 29	AUG. 9 06 13
AUG. 17 10 34	AUG. 24 20 32	AUG. 31 12 51	SEPT. 7 22 50
SEPT. 16 00 10	SEPT. 23 02 39	SEPT. 29 23 11	OCT. 7 18 04
OCT. 15 12 37	OCT. 22 09 09	OCT. 29 12 18	NOV. 6 14 27
NOV. 14 00 20	NOV. 20 17 05	NOV. 28 04 40	DEC. 6 10 05
DEC. 13 11 43	DEC. 20 03 22	DEC. 27 23 39	
1899			
			JAN. 5 03 21
JAN. 11 22 50	JAN. 18 16 36	JAN. 26 19 34	FEB. 3 17 24
FEB. 10 09 32	FEB. 17 08 53	FEB. 25 14 16	MAR. 5 04 07
MAR. 11 19 53	MAR. 19 03 24	MAR. 27 06 18	APR. 3 11 55
APR. 10 06 21	APR. 17 22 43	APR. 25 19 21	MAY 2 17 47
MAY 9 17 39	MAY 17 17 13	MAY 25 05 49	MAY 31 22 55
JUNE 8 06 20	JUNE 16 09 47	JUNE 23 14 20	JUNE 30 04 45
JULY 7 20 31	JULY 15 23 59	JULY 22 21 42	JULY 29 12 43
AUG. 6 11 48	AUG. 14 11 54	AUG. 21 04 45	AUG. 27 23 57
SEPT. 5 03 34	SEPT. 12 21 49	SEPT. 19 12 31	SEPT. 26 15 03
OCT. 4 19 14	OCT. 12 06 10	OCT. 18 22 04	OCT. 26 09 40
NOV. 3 10 26	NOV. 10 13 35	NOV. 17 10 18	NOV. 25 06 34
DEC. 3 00 47	DEC. 9 21 02	DEC. 17 01 30	DEC. 25 03 58

PHASES OF THE MOON

1900

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	1	13	51	JAN.	8	05	40	JAN.	15	19	08	JAN.	23	23	52
JAN.	31	01	22	FEB.	6	16	22	FEB.	14	13	50	FEB.	22	16	44
MAR.	1	11	25	MAR.	8	05	35	MAR.	16	08	12	MAR.	24	05	36
MAR.	30	20	31	APR.	6	20	55	APR.	15	01	02	APR.	22	14	33
APR.	29	05	23	MAY	6	13	39	MAY	14	15	37	MAY	21	20	31
MAY	28	14	50	JUNE	5	06	58	JUNE	13	03	39	JUNE	20	00	57
JUNE	27	01	27	JULY	5	00	13	JULY	12	13	22	JULY	19	05	31
JULY	26	13	43	AUG.	3	16	45	AUG.	10	21	30	AUG.	17	11	46
AUG.	25	03	53	SEPT.	2	07	55	SEPT.	9	05	06	SEPT.	15	20	57
SEPT.	23	19	57	OCT.	1	21	11	OCT.	8	13	19	OCT.	15	09	51
OCT.	23	13	27	OCT.	31	08	17	NOV.	6	23	00	NOV.	14	02	38
NOV.	22	07	17	NOV.	29	17	35	DEC.	6	10	38	DEC.	13	22	42
DEC.	22	00	01	DEC.	29	01	48								

1901

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
								JAN.	5	00	13	JAN.	12	20	38
JAN.	20	14	36	JAN.	27	09	52	FEB.	3	15	30	FEB.	11	18	12
FEB.	19	02	45	FEB.	25	18	38	MAR.	5	08	04	MAR.	13	13	06
MAR.	20	12	53	MAR.	27	04	39	APR.	4	01	20	APR.	12	03	57
APR.	18	21	38	APR.	25	16	14	MAY	3	18	18	MAY	11	14	38
MAY	18	05	38	MAY	25	05	40	JUNE	2	09	53	JUNE	9	22	00
JUNE	16	13	33	JUNE	23	20	58	JULY	1	23	17	JULY	9	03	20
JULY	15	22	10	JULY	23	13	58	JULY	31	10	34	AUG.	7	08	02
AUG.	14	08	27	AUG.	22	07	52	AUG.	29	20	21	SEPT.	5	13	28
SEPT.	12	21	19	SEPT.	21	01	33	SEPT.	28	05	36	OCT.	4	20	52
OCT.	12	13	11	OCT.	20	17	58	OCT.	27	15	06	NOV.	3	07	24
NOV.	11	07	34	NOV.	19	08	23	NOV.	26	01	18	DEC.	2	21	50
DEC.	11	02	53	DEC.	18	20	36	DEC.	25	12	16				

1902

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
												JAN.	1	16	08
JAN.	9	21	14	JAN.	17	06	39	JAN.	24	00	06	JAN.	31	13	08
FEB.	8	13	22	FEB.	15	14	56	FEB.	22	13	03	MAR.	2	10	40
MAR.	10	02	50	MAR.	16	22	13	MAR.	24	03	21	APR.	1	06	24
APR.	8	13	50	APR.	15	05	25	APR.	22	18	50	APR.	30	22	58
MAY	7	22	45	MAY	14	13	39	MAY	22	10	46	MAY	30	12	00
JUNE	6	06	10	JUNE	12	23	53	JUNE	21	02	17	JUNE	28	21	51
JULY	5	12	59	JULY	12	12	47	JULY	20	16	45	JULY	28	05	15
AUG.	3	20	18	AUG.	11	04	24	AUG.	19	06	03	AUG.	26	11	05
SEPT.	2	05	19	SEPT.	9	22	15	SEPT.	17	18	23	SEPT.	24	16	31
OCT.	1	17	09	OCT.	9	17	21	OCT.	17	06	00	OCT.	23	22	59
OCT.	31	08	13	NOV.	8	12	31	NOV.	15	17	07	NOV.	22	07	47
NOV.	30	02	05	DEC.	8	06	26	DEC.	15	03	47	DEC.	21	20	00
DEC.	29	21	25												

1903

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
				JAN.	6	21	57	JAN.	13	14	17	JAN.	20	11	49
JAN.	28	16	38	FEB.	5	10	13	FEB.	12	00	58	FEB.	19	06	23
FEB.	27	10	19	MAR.	6	19	14	MAR.	13	12	13	MAR.	21	02	07
MAR.	29	01	26	APR.	5	01	51	APR.	12	00	18	APR.	19	21	30
APR.	27	13	31	MAY	4	07	26	MAY	11	13	17	MAY	19	15	18
MAY	26	22	49	JUNE	2	13	24	JUNE	10	03	08	JUNE	18	06	44
JUNE	25	06	10	JULY	1	21	02	JULY	9	17	43	JULY	17	19	24
JULY	24	12	46	JULY	31	07	15	AUG.	8	08	54	AUG.	16	05	23
AUG.	22	19	51	AUG.	29	20	35	SEPT.	7	00	20	SEPT.	14	13	14
SEPT.	21	04	31	SEPT.	28	13	08	OCT.	6	15	23	OCT.	13	19	57
OCT.	20	15	30	OCT.	28	08	33	NOV.	5	05	27	NOV.	12	02	46
NOV.	19	05	10	NOV.	27	05	37	DEC.	4	18	13	DEC.	11	10	53
DEC.	18	21	26	DEC.	27	02	22								

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1904							
				JAN.	3 05 47	JAN.	9 21 10
JAN.	17 15 46	JAN.	25 20 41	FEB.	1 16 33	FEB.	8 09 56
FEB.	16 11 05	FEB.	24 11 08	MAR.	2 02 48	MAR.	9 01 00
MAR.	17 05 39	MAR.	24 21 37	MAR.	31 12 45	APR.	7 17 53
APR.	15 21 53	APR.	23 04 54	APR.	29 22 36	MAY	7 11 50
MAY	15 10 58	MAY	22 10 19	MAY	29 08 54	JUNE	6 05 53
JUNE	13 21 10	JUNE	20 15 11	JUNE	27 20 23	JULY	5 22 54
JULY	13 05 27	JULY	19 20 49	JULY	27 09 42	AUG.	4 14 03
AUG.	11 12 58	AUG.	18 04 27	AUG.	26 01 02	SEPT.	3 02 59
SEPT.	9 20 43	SEPT.	16 15 13	SEPT.	24 17 50	OCT.	2 13 52
OCT.	9 05 25	OCT.	16 05 55	OCT.	24 10 56	OCT.	31 23 13
NOV.	7 15 37	NOV.	15 00 35	NOV.	23 03 11	NOV.	30 07 38
DEC.	7 03 46	DEC.	14 22 06	DEC.	22 18 01	DEC.	29 15 46
1905							
JAN.	5 18 17	JAN.	13 20 11	JAN.	21 07 14	JAN.	28 00 20
FEB.	4 11 05	FEB.	12 16 20	FEB.	19 18 52	FEB.	26 10 03
MAR.	6 05 19	MAR.	14 08 59	MAR.	21 04 55	MAR.	27 21 35
APR.	4 23 23	APR.	12 21 42	APR.	19 13 38	APR.	26 11 13
MAY	4 15 50	MAY	12 06 47	MAY	18 21 36	MAY	26 02 50
JUNE	3 05 57	JUNE	10 13 05	JUNE	17 05 51	JUNE	24 19 46
JULY	2 17 50	JULY	9 17 46	JULY	16 15 32	JULY	24 13 08
AUG.	1 04 02	AUG.	7 22 16	AUG.	15 03 31	AUG.	23 06 10
AUG.	30 13 13	SEPT.	6 04 09	SEPT.	13 18 10	SEPT.	21 22 13
SEPT.	28 21 59	OCT.	5 12 54	OCT.	13 11 03	OCT.	21 12 50
OCT.	28 06 58	NOV.	4 01 39	NOV.	12 05 11	NOV.	20 01 34
NOV.	26 16 47	DEC.	3 18 38	DEC.	11 23 26	DEC.	19 12 09
DEC.	26 04 04						
1906							
		JAN.	2 14 51	JAN.	10 16 37	JAN.	17 20 48
JAN.	24 17 09	FEB.	1 12 30	FEB.	9 07 46	FEB.	16 04 23
FEB.	23 07 57	MAR.	3 09 28	MAR.	10 20 18	MAR.	17 11 57
MAR.	24 23 52	APR.	2 04 02	APR.	9 06 12	APR.	15 20 37
APR.	23 16 07	MAY	1 19 07	MAY	8 14 10	MAY	15 07 03
MAY	23 08 00	MAY	31 06 23	JUNE	6 21 12	JUNE	13 19 35
JUNE	21 23 06	JUNE	29 14 19	JULY	6 04 28	JULY	13 10 12
JULY	21 12 59	JULY	28 19 56	AUG.	4 13 00	AUG.	12 02 47
AUG.	20 01 28	AUG.	27 00 42	SEPT.	2 23 36	SEPT.	10 20 53
SEPT.	18 12 34	SEPT.	25 06 12	OCT.	2 12 48	OCT.	10 15 40
OCT.	17 22 43	OCT.	24 13 50	NOV.	1 04 46	NOV.	9 09 45
NOV.	16 08 36	NOV.	23 00 39	NOV.	30 23 07	DEC.	9 01 45
DEC.	15 18 54	DEC.	22 15 03	DEC.	30 18 44		
1907							
						JAN.	7 14 48
JAN.	14 05 57	JAN.	21 08 41	JAN.	29 13 45	FEB.	6 00 52
FEB.	12 17 43	FEB.	20 04 35	FEB.	28 06 23	MAR.	7 08 42
MAR.	14 06 05	MAR.	22 01 10	MAR.	29 19 44	APR.	5 15 20
APR.	12 19 06	APR.	20 20 38	APR.	28 06 04	MAY	4 21 54
MAY	12 08 59	MAY	20 13 27	MAY	27 14 18	JUNE	3 05 20
JUNE	10 23 50	JUNE	19 02 54	JUNE	25 21 27	JULY	2 14 34
JULY	10 15 17	JULY	18 13 12	JULY	25 04 30	AUG.	1 02 25
AUG.	9 06 37	AUG.	16 21 06	AUG.	23 12 15	AUG.	30 17 28
SEPT.	7 21 04	SEPT.	15 03 40	SEPT.	21 21 33	SEPT.	29 11 36
OCT.	7 10 20	OCT.	14 10 02	OCT.	21 09 16	OCT.	29 07 51
NOV.	5 22 39	NOV.	12 17 15	NOV.	20 00 04	NOV.	28 04 22
DEC.	5 10 22	DEC.	12 02 16	DEC.	19 17 55	DEC.	27 23 10

NEW MOON D H M	FIRST QUARTER D H M	FULL MOON D H M	LAST QUARTER D H M
1908			
JAN. 3 21 43	JAN. 10 13 52	JAN. 18 13 37	JAN. 26 15 01
FEB. 2 08 36	FEB. 9 04 27	FEB. 17 09 06	FEB. 25 03 24
MAR. 2 18 57	MAR. 9 21 43	MAR. 18 02 28	MAR. 25 12 32
APR. 1 05 02	APR. 8 16 31	APR. 16 16 55	APR. 23 19 07
APR. 30 15 34	MAY 8 11 23	MAY 16 04 32	MAY 23 00 18
MAY 30 03 14	JUNE 7 04 56	JUNE 14 13 55	JUNE 21 05 26
JUNE 28 16 31	JULY 6 20 25	JULY 13 21 48	JULY 20 12 01
JULY 28 07 17	AUG. 5 09 40	AUG. 12 04 59	AUG. 18 21 25
AUG. 26 22 59	SEPT. 3 20 51	SEPT. 10 12 23	SEPT. 17 10 34
SEPT. 25 15 00	OCT. 3 06 13	OCT. 9 21 04	OCT. 17 03 35
OCT. 25 06 46	NOV. 1 14 16	NOV. 8 07 58	NOV. 15 23 41
NOV. 23 21 53	NOV. 30 21 44	DEC. 7 21 44	DEC. 15 21 12
DEC. 23 11 49	DEC. 30 05 40		
1909			
		JAN. 6 14 13	JAN. 14 18 12
JAN. 22 00 11	JAN. 28 15 07	FEB. 5 08 25	FEB. 13 12 47
FEB. 20 10 52	FEB. 27 02 49	MAR. 7 02 56	MAR. 15 03 42
MAR. 21 20 12	MAR. 28 16 49	APR. 5 20 29	APR. 13 14 30
APR. 20 04 51	APR. 27 08 36	MAY 5 12 08	MAY 12 21 46
MAY 19 13 42	MAY 27 01 27	JUNE 4 01 25	JUNE 11 02 43
JUNE 17 23 28	JUNE 25 18 43	JULY 3 12 17	JULY 10 06 58
JULY 17 10 44	JULY 25 11 46	AUG. 1 21 14	AUG. 8 12 10
AUG. 15 23 55	AUG. 24 03 56	AUG. 31 05 08	SEPT. 6 19 45
SEPT. 14 15 09	SEPT. 22 18 31	SEPT. 29 13 06	OCT. 6 06 45
OCT. 14 08 14	OCT. 22 07 04	OCT. 28 22 07	NOV. 4 21 38
NOV. 13 02 18	NOV. 20 17 29	NOV. 27 08 52	DEC. 4 16 13
DEC. 12 19 59	DEC. 20 02 18	DEC. 26 21 30	
1910			
			JAN. 3 13 27
JAN. 11 11 51	JAN. 18 10 20	JAN. 25 11 51	FEB. 2 11 27
FEB. 10 01 13	FEB. 16 18 33	FEB. 24 03 36	MAR. 4 07 53
MAR. 11 12 12	MAR. 18 03 37	MAR. 25 20 20	APR. 3 00 47
APR. 9 21 25	APR. 16 14 03	APR. 24 13 23	MAY 2 13 30
MAY 9 05 33	MAY 16 02 13	MAY 24 05 39	MAY 31 22 24
JUNE 7 13 16	JUNE 14 16 20	JUNE 22 20 11	JUNE 30 04 39
JULY 6 21 20	JULY 14 08 24	JULY 22 08 37	JULY 29 09 35
AUG. 5 06 36	AUG. 13 02 01	AUG. 20 19 14	AUG. 27 14 34
SEPT. 3 18 06	SEPT. 11 20 11	SEPT. 19 04 53	SEPT. 25 20 54
OCT. 3 08 32	OCT. 11 13 40	OCT. 18 14 25	OCT. 25 05 48
NOV. 2 01 56	NOV. 10 05 29	NOV. 17 00 25	NOV. 23 18 13
DEC. 1 21 11	DEC. 9 19 05	DEC. 16 11 05	DEC. 23 10 36
DEC. 31 16 22			
1911			
	JAN. 8 06 21	JAN. 14 22 26	JAN. 22 06 21
JAN. 30 09 45	FEB. 6 15 27	FEB. 13 10 37	FEB. 21 03 45
MAR. 1 00 31	MAR. 7 23 01	MAR. 14 23 58	MAR. 23 00 27
MAR. 30 12 38	APR. 6 05 55	APR. 13 14 36	APR. 21 18 35
APR. 28 22 25	MAY 5 13 14	MAY 13 06 10	MAY 21 09 22
MAY 28 06 24	JUNE 3 22 04	JUNE 11 21 51	JUNE 19 20 50
JUNE 26 13 20	JULY 3 09 21	JULY 11 12 53	JULY 19 05 31
JULY 25 20 13	AUG. 1 23 30	AUG. 10 02 54	AUG. 17 12 11
AUG. 24 04 14	AUG. 31 16 21	SEPT. 8 15 56	SEPT. 15 17 51
SEPT. 22 14 37	SEPT. 30 11 08	OCT. 8 04 11	OCT. 14 23 46
OCT. 22 04 10	OCT. 30 06 42	NOV. 6 15 48	NOV. 13 07 20
NOV. 20 20 49	NOV. 29 01 42	DEC. 6 02 52	DEC. 12 17 46
DEC. 20 15 40	DEC. 28 18 47		

PHASES OF THE MOON

1912

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
				JAN.	4 13 29	JAN.	11 07 43
JAN.	19 11 10	JAN.	27 08 51	FEB.	2 23 58	FEB.	10 00 51
FEB.	18 05 44	FEB.	25 19 26	MAR.	3 10 42	MAR.	10 19 55
MAR.	18 22 09	MAR.	26 03 01	APR.	1 22 04	APR.	9 15 23
APR.	17 11 40	APR.	24 08 47	MAY	1 10 19	MAY	9 09 57
MAY	16 22 14	MAY	23 14 11	MAY	30 23 30	JUNE	8 02 36
JUNE	15 06 23	JUNE	21 20 39	JUNE	29 13 34	JULY	7 16 47
JULY	14 13 13	JULY	21 05 19	JULY	29 04 28	AUG.	6 04 17
AUG.	12 19 58	AUG.	19 16 56	AUG.	27 19 58	SEPT.	4 13 23
SEPT.	11 03 48	SEPT.	18 07 55	SEPT.	26 11 35	OCT.	3 20 48
OCT.	10 13 40	OCT.	18 02 05	OCT.	26 02 30	NOV.	2 03 38
NOV.	9 02 05	NOV.	16 22 42	NOV.	24 16 12	DEC.	1 11 05
DEC.	8 17 07	DEC.	16 20 06	DEC.	24 04 30	DEC.	30 20 12

1913

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	7 10 28	JAN.	15 16 01	JAN.	22 15 40	JAN.	29 07 34
FEB.	6 05 22	FEB.	14 08 34	FEB.	21 02 03	FEB.	27 21 16
MAR.	8 00 22	MAR.	15 20 58	MAR.	22 11 56	MAR.	29 12 57
APR.	6 17 48	APR.	14 05 38	APR.	20 21 32	APR.	28 06 09
MAY	6 08 24	MAY	13 11 44	MAY	20 07 18	MAY	28 00 04
JUNE	4 19 57	JUNE	11 16 36	JUNE	18 17 54	JUNE	26 17 40
JULY	4 05 06	JULY	10 21 37	JULY	18 06 07	JULY	26 09 58
AUG.	2 12 58	AUG.	9 04 03	AUG.	16 20 26	AUG.	25 00 18
AUG.	31 20 38	SEPT.	7 13 06	SEPT.	15 12 46	SEPT.	23 12 30
SEPT.	30 04 56	OCT.	7 01 47	OCT.	15 06 06	OCT.	22 22 53
OCT.	29 14 29	NOV.	5 18 34	NOV.	13 23 11	NOV.	21 07 57
NOV.	28 01 41	DEC.	5 14 58	DEC.	13 15 00	DEC.	20 16 16
DEC.	27 14 59						

1914

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
		JAN.	4 13 09	JAN.	12 05 09	JAN.	19 00 30
JAN.	26 06 34	FEB.	3 10 33	FEB.	10 17 35	FEB.	17 09 24
FEB.	25 00 02	MAR.	5 05 03	MAR.	12 04 18	MAR.	18 19 39
MAR.	26 18 09	APR.	3 19 41	APR.	10 13 28	APR.	17 07 53
APR.	25 11 21	MAY	3 06 28	MAY	9 21 30	MAY	16 22 12
MAY	25 02 35	JUNE	1 14 03	JUNE	8 05 19	JUNE	15 14 20
JUNE	23 15 33	JUNE	30 19 25	JULY	7 14 00	JULY	15 07 32
JULY	23 02 39	JULY	29 23 51	AUG.	6 00 41	AUG.	14 00 57
AUG.	21 12 26	AUG.	28 04 52	SEPT.	4 14 01	SEPT.	12 17 49
SEPT.	19 21 33	SEPT.	26 12 03	OCT.	4 05 58	OCT.	12 09 33
OCT.	19 06 34	OCT.	25 22 44	NOV.	2 23 49	NOV.	10 23 37
NOV.	17 16 02	NOV.	24 13 39	DEC.	2 18 21	DEC.	10 11 32
DEC.	17 02 35	DEC.	24 08 25				

1915

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
				JAN.	1 12 21	JAN.	8 21 13
JAN.	15 14 42	JAN.	23 05 32	JAN.	31 04 42	FEB.	7 05 11
FEB.	14 04 31	FEB.	22 02 58	MAR.	1 18 33	MAR.	8 12 27
MAR.	15 19 42	MAR.	23 22 47	MAR.	31 05 37	APR.	6 20 13
APR.	14 11 35	APR.	22 15 39	APR.	29 14 19	MAY	6 05 23
MAY	14 03 31	MAY	22 04 50	MAY	28 21 33	JUNE	4 15 31
JUNE	12 18 57	JUNE	20 14 25	JUNE	27 04 27	JULY	4 05 54
JULY	12 09 31	JULY	19 21 09	JULY	26 12 11	AUG.	2 21 26
AUG.	10 22 53	AUG.	18 02 17	AUG.	24 21 40	SEPT.	1 14 56
SEPT.	9 10 52	SEPT.	16 07 21	SEPT.	23 09 35	OCT.	1 09 45
OCT.	8 21 42	OCT.	15 13 51	OCT.	23 00 15	OCT.	31 04 40
NOV.	7 07 52	NOV.	13 23 03	NOV.	21 17 37	NOV.	29 22 11
DEC.	6 18 03	DEC.	13 11 39	DEC.	21 12 52	DEC.	29 12 59

PHASES OF THE MOON

1916

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	5 04 46	JAN.	12 03 38	JAN.	20 08 29	JAN.	28 00 35
FEB.	3 16 06	FEB.	10 22 21	FEB.	19 02 29	FEB.	26 09 23
MAR.	4 03 58	MAR.	11 18 33	MAR.	19 17 26	MAR.	26 16 22
APR.	2 16 21	APR.	10 14 36	APR.	18 05 07	APR.	24 22 38
MAY	2 05 29	MAY	10 08 47	MAY	17 14 12	MAY	24 05 17
MAY	31 19 37	JUNE	8 23 59	JUNE	15 21 42	JUNE	22 13 16
JUNE	30 10 44	JULY	8 11 55	JULY	15 04 40	JULY	21 23 32
JULY	30 02 16	AUG.	6 21 05	AUG.	13 12 00	AUG.	20 12 53
AUG.	28 17 25	SEPT.	5 04 26	SEPT.	11 20 30	SEPT.	19 05 35
SEPT.	27 07 34	OCT.	4 11 01	OCT.	11 07 01	OCT.	19 01 09
OCT.	26 20 37	NOV.	2 17 51	NOV.	9 20 18	NOV.	17 22 00
NOV.	25 08 51	DEC.	2 01 56	DEC.	9 12 44	DEC.	17 18 06
DEC.	24 20 31	DEC.	31 12 07				

1917

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
				JAN.	8 07 42	JAN.	16 11 42
JAN.	23 07 40	JAN.	30 01 01	FEB.	7 03 29	FEB.	15 01 54
FEB.	21 18 09	FEB.	28 16 43	MAR.	8 21 58	MAR.	16 12 34
MAR.	23 04 05	MAR.	30 10 36	APR.	7 13 49	APR.	14 20 12
APR.	21 14 01	APR.	29 05 22	MAY	7 02 44	MAY	14 01 48
MAY	21 00 47	MAY	28 23 33	JUNE	5 13 07	JUNE	12 06 39
JUNE	19 13 02	JUNE	27 16 08	JULY	4 21 41	JULY	11 12 12
JULY	19 03 00	JULY	27 06 41	AUG.	3 05 11	AUG.	9 19 57
AUG.	17 18 22	AUG.	25 19 08	SEPT.	1 12 28	SEPT.	8 07 05
SEPT.	16 10 28	SEPT.	24 05 41	SEPT.	30 20 31	OCT.	7 22 14
OCT.	16 02 41	OCT.	23 14 38	OCT.	30 06 19	NOV.	6 17 04
NOV.	14 18 29	NOV.	21 22 29	NOV.	28 18 41	DEC.	6 14 13
DEC.	14 09 17	DEC.	21 06 07	DEC.	28 09 51		

1918

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
						JAN.	5 11 50
JAN.	12 22 36	JAN.	19 14 38	JAN.	27 03 14	FEB.	4 07 52
FEB.	11 10 04	FEB.	18 00 57	FEB.	25 21 35	MAR.	6 00 43
MAR.	12 19 52	MAR.	19 13 31	MAR.	27 15 33	APR.	4 13 33
APR.	11 04 35	APR.	18 04 08	APR.	26 08 05	MAY	3 22 26
MAY	10 13 01	MAY	17 20 13	MAY	25 22 32	JUNE	2 04 20
JUNE	8 22 03	JUNE	16 13 12	JUNE	24 10 38	JULY	1 08 43
JULY	8 08 22	JULY	16 06 24	JULY	23 20 35	JULY	30 13 14
AUG.	6 20 29	AUG.	14 23 17	AUG.	22 05 02	AUG.	28 19 27
SEPT.	5 10 44	SEPT.	13 15 02	SEPT.	20 13 01	SEPT.	27 04 39
OCT.	5 03 06	OCT.	13 05 00	OCT.	19 21 35	OCT.	26 17 35
NOV.	3 21 02	NOV.	11 16 46	NOV.	18 07 33	NOV.	25 10 26
DEC.	3 15 20	DEC.	11 02 32	DEC.	17 19 18	DEC.	25 06 30

1919

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	2 08 24	JAN.	9 10 55	JAN.	16 08 44	JAN.	24 04 23
JAN.	31 23 07	FEB.	7 18 53	FEB.	14 23 38	FEB.	23 01 49
MAR.	2 11 11	MAR.	9 03 14	MAR.	16 15 42	MAR.	24 20 34
MAR.	31 21 05	APR.	7 12 39	APR.	15 08 26	APR.	23 11 21
APR.	30 05 30	MAY	6 23 33	MAY	15 01 02	MAY	22 22 04
MAY	29 13 12	JUNE	5 12 22	JUNE	13 16 27	JUNE	21 05 33
JUNE	27 20 52	JULY	5 03 17	JULY	13 06 02	JULY	20 11 03
JULY	27 05 22	AUG.	3 20 11	AUG.	11 17 40	AUG.	18 15 56
AUG.	25 15 37	SEPT.	2 14 22	SEPT.	10 03 54	SEPT.	16 21 32
SEPT.	24 04 34	OCT.	2 08 38	OCT.	9 13 39	OCT.	16 05 05
OCT.	23 20 39	NOV.	1 01 43	NOV.	7 23 36	NOV.	14 15 40
NOV.	22 15 19	NOV.	30 16 47	DEC.	7 10 04	DEC.	14 06 03
DEC.	22 10 56	DEC.	30 05 25				

PHASES OF THE MOON

1920

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	21 05 28	JAN.	28 15 38	JAN.	5 21 05	JAN.	13 00 09
FEB.	19 21 35	FEB.	26 23 49	FEB.	4 08 43	FEB.	11 20 49
MAR.	20 10 56	MAR.	27 06 45	MAR.	4 21 13	MAR.	12 17 57
APR.	18 21 43	APR.	25 13 28	APR.	3 10 55	APR.	11 13 24
MAY	18 06 25	MAY	24 21 07	MAY	3 01 47	MAY	11 05 51
JUNE	16 13 42	JUNE	23 06 49	JUNE	1 17 18	JUNE	9 18 58
JULY	15 20 26	JULY	22 19 20	JULY	1 08 41	JULY	9 05 06
AUG.	14 03 44	AUG.	21 10 52	JULY	30 23 19	AUG.	7 12 51
SEPT.	12 12 52	SEPT.	20 04 55	AUG.	29 13 03	SEPT.	5 19 05
OCT.	12 00 51	OCT.	20 00 29	SEPT.	28 01 57	OCT.	5 00 54
NOV.	10 16 05	NOV.	18 20 13	OCT.	27 14 09	NOV.	3 07 35
DEC.	10 10 04	DEC.	18 14 41	NOV.	26 01 43	DEC.	2 16 29
				DEC.	25 12 39		

1921

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	9 05 27	JAN.	17 06 31	JAN.	23 23 08	JAN.	1 04 35
FEB.	8 00 37	FEB.	15 18 53	FEB.	22 09 32	JAN.	30 20 02
MAR.	9 18 09	MAR.	17 03 49	MAR.	23 20 19	MAR.	1 14 03
APR.	8 09 05	APR.	15 10 11	APR.	22 07 49	MAR.	31 09 13
MAY	7 21 01	MAY	14 15 25	MAY	21 20 15	APR.	30 04 09
JUNE	6 06 14	JUNE	12 20 59	JUNE	20 09 42	MAY	29 21 44
JULY	5 13 36	JULY	12 04 16	JULY	20 00 08	JUNE	28 13 17
AUG.	3 20 17	AUG.	10 14 14	AUG.	18 15 28	JULY	28 02 19
SEPT.	2 03 33	SEPT.	9 03 29	SEPT.	17 07 20	AUG.	26 12 51
OCT.	1 12 26	OCT.	8 20 11	OCT.	16 22 59	SEPT.	24 21 17
OCT.	30 23 39	NOV.	7 15 53	NOV.	15 13 39	OCT.	24 04 31
NOV.	29 13 26	DEC.	7 13 19	DEC.	15 02 50	NOV.	22 11 41
DEC.	29 05 39					DEC.	21 19 54

1922

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	27 23 48	JAN.	6 10 24	JAN.	13 14 36	JAN.	20 06 00
FEB.	26 18 47	FEB.	5 04 52	FEB.	12 01 17	FEB.	18 18 19
MAR.	28 13 04	MAR.	6 19 22	MAR.	13 11 14	MAR.	20 08 43
APR.	27 05 03	APR.	5 05 46	APR.	11 20 43	APR.	19 00 54
MAY	26 18 04	MAY	4 12 56	MAY	11 06 06	MAY	18 18 17
JUNE	25 04 20	JUNE	2 18 10	JUNE	9 15 58	JUNE	17 12 03
JULY	24 12 47	JULY	1 22 52	JULY	9 03 08	JULY	17 05 11
AUG.	22 20 34	JULY	31 04 22	AUG.	7 16 19	AUG.	15 20 46
SEPT.	21 04 38	AUG.	29 11 55	SEPT.	6 07 47	SEPT.	14 10 20
OCT.	20 13 40	SEPT.	27 22 41	OCT.	6 00 59	OCT.	13 21 56
NOV.	19 00 07	OCT.	27 13 26	NOV.	4 18 36	NOV.	12 07 52
DEC.	18 12 20	NOV.	26 08 15	DEC.	4 11 23	DEC.	11 16 41
		DEC.	26 05 53				

1923

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	17 02 41	JAN.	25 04 00	JAN.	3 02 33	JAN.	10 00 55
FEB.	15 19 07	FEB.	24 00 07	FEB.	1 15 54	FEB.	8 09 16
MAR.	17 12 50	MAR.	25 16 42	MAR.	3 03 24	MAR.	9 18 31
APR.	16 06 28	APR.	24 05 21	APR.	1 13 10	APR.	8 05 22
MAY	15 22 38	MAY	23 14 25	APR.	30 21 30	MAY	7 18 18
JUNE	14 12 42	JUNE	21 20 46	MAY	30 05 07	JUNE	6 09 19
JULY	14 00 46	JULY	21 01 32	JUNE	28 13 05	JULY	6 01 57
AUG.	12 11 17	AUG.	19 06 07	JULY	27 22 33	AUG.	4 19 23
SEPT.	10 20 53	SEPT.	17 12 05	AUG.	26 10 30	SEPT.	3 12 47
OCT.	10 06 06	OCT.	16 20 54	SEPT.	25 01 16	OCT.	3 05 29
NOV.	8 15 28	NOV.	15 09 41	OCT.	24 18 26	NOV.	1 20 49
DEC.	8 01 30	DEC.	15 02 38	NOV.	23 12 58	DEC.	1 10 10
				DEC.	23 07 33	DEC.	30 21 07

PHASES OF THE MOON

1924

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	6	12	48	JAN.	13	22	45	JAN.	22	00	57	JAN.	29	05	53
FEB.	5	01	39	FEB.	12	20	08	FEB.	20	16	08	FEB.	27	13	15
MAR.	5	15	58	MAR.	13	16	51	MAR.	21	04	30	MAR.	27	20	25
APR.	4	07	17	APR.	12	11	12	APR.	19	14	11	APR.	26	04	28
MAY	3	22	59	MAY	12	02	14	MAY	18	21	53	MAY	25	14	16
JUNE	2	14	34	JUNE	10	13	37	JUNE	17	04	42	JUNE	24	02	16
JULY	2	05	36	JULY	9	21	46	JULY	16	11	49	JULY	23	16	36
JULY	31	19	43	AUG.	8	03	42	AUG.	14	20	20	AUG.	22	09	10
AUG.	30	08	37	SEPT.	6	08	46	SEPT.	13	07	00	SEPT.	21	03	35
SEPT.	28	20	16	OCT.	5	14	31	OCT.	12	20	21	OCT.	20	22	55
OCT.	28	06	57	NOV.	3	22	18	NOV.	11	12	31	NOV.	19	17	39
NOV.	26	17	16	DEC.	3	09	11	DEC.	11	07	04	DEC.	19	10	12
DEC.	26	03	46												

1925

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	24	14	46	JAN.	1	23	25	JAN.	10	02	47	JAN.	17	23	33
FEB.	23	02	12	JAN.	31	16	44	FEB.	8	21	49	FEB.	16	09	41
MAR.	24	14	03	MAR.	2	12	06	MAR.	10	14	21	MAR.	17	17	22
APR.	23	02	28	APR.	1	08	13	APR.	9	03	33	APR.	15	23	40
MAY	22	15	48	MAY	1	03	21	MAY	8	13	43	MAY	15	05	46
JUNE	21	06	16	MAY	30	20	05	JUNE	6	21	49	JUNE	13	12	44
JULY	20	21	40	JUNE	29	09	43	JULY	6	04	54	JULY	12	21	34
AUG.	19	13	15	JULY	28	20	23	AUG.	4	11	59	AUG.	11	09	11
SEPT.	18	04	13	AUG.	27	04	47	SEPT.	2	19	53	SEPT.	10	00	12
OCT.	17	18	06	SEPT.	25	11	51	OCT.	2	05	23	OCT.	9	18	34
NOV.	16	06	58	OCT.	24	18	38	OCT.	31	17	17	NOV.	8	15	13
DEC.	15	19	05	NOV.	23	02	06	NOV.	30	08	11	DEC.	8	12	11
				DEC.	22	11	08	DEC.	30	02	02				

1926

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	14	06	35	JAN.	20	22	31	JAN.	28	21	35	JAN.	7	07	22
FEB.	12	17	21	FEB.	19	12	36	FEB.	27	16	51	FEB.	5	23	25
MAR.	14	03	21	MAR.	21	05	12	MAR.	29	10	01	MAR.	7	11	50
APR.	12	12	57	APR.	19	23	23	APR.	28	00	17	APR.	5	20	50
MAY	11	22	56	MAY	19	17	49	MAY	27	11	49	MAY	5	03	13
JUNE	10	10	08	JUNE	18	11	14	JUNE	25	21	13	JUNE	3	08	09
JULY	9	23	07	JULY	18	02	56	JULY	25	05	14	JULY	2	13	03
AUG.	8	13	49	AUG.	16	16	38	AUG.	23	12	38	JULY	31	19	25
SEPT.	7	05	45	SEPT.	15	04	26	SEPT.	21	20	19	AUG.	30	04	41
OCT.	6	22	13	OCT.	14	14	28	OCT.	21	05	16	SEPT.	28	17	48
NOV.	5	14	35	NOV.	12	23	02	NOV.	19	16	22	OCT.	28	10	57
DEC.	5	06	12	DEC.	12	06	48	DEC.	19	06	09	NOV.	27	07	15
												DEC.	27	04	59

1927

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	3	20	29	JAN.	10	14	43	JAN.	17	22	27	JAN.	26	02	05
FEB.	2	08	55	FEB.	8	23	54	FEB.	16	16	18	FEB.	24	20	42
MAR.	3	19	25	MAR.	10	11	03	MAR.	18	10	24	MAR.	26	11	35
APR.	2	04	25	APR.	9	00	21	APR.	17	03	35	APR.	24	22	21
MAY	1	12	40	MAY	8	15	28	MAY	16	19	02	MAY	24	05	34
MAY	30	21	06	JUNE	7	07	49	JUNE	15	08	19	JUNE	22	10	30
JUNE	29	06	32	JULY	7	00	53	JULY	14	19	22	JULY	21	14	44
JULY	28	17	36	AUG.	5	18	06	AUG.	13	04	38	AUG.	19	19	54
AUG.	27	06	46	SEPT.	4	10	44	SEPT.	11	12	54	SEPT.	18	03	30
SEPT.	25	22	11	OCT.	4	02	02	OCT.	10	21	15	OCT.	17	14	32
OCT.	25	15	37	NOV.	2	15	16	NOV.	9	06	37	NOV.	16	05	29
NOV.	24	10	10	DEC.	2	02	15	DEC.	8	17	32	DEC.	16	00	04
DEC.	24	04	13	DEC.	31	11	23								

PHASES OF THE MOON

1928

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	22	20	20	JAN.	29	19	26	JAN.	7	06	08	JAN.	14	21	14
FEB.	21	09	41	FEB.	28	03	21	FEB.	5	20	11	FEB.	13	19	06
MAR.	21	20	30	MAR.	28	11	55	MAR.	6	11	28	MAR.	14	15	20
APR.	20	05	25	APR.	26	21	42	APR.	5	03	38	APR.	13	08	09
MAY	19	13	14	MAY	26	09	12	MAY	4	20	12	MAY	12	20	51
JUNE	17	20	42	JUNE	24	22	47	JUNE	3	12	13	JUNE	11	05	51
JULY	17	04	36	JULY	24	14	38	JULY	3	02	49	JULY	10	12	16
AUG.	15	13	49	AUG.	23	08	22	AUG.	1	15	31	AUG.	8	17	24
SEPT.	14	01	20	SEPT.	22	02	58	AUG.	31	02	34	SEPT.	6	22	35
OCT.	13	15	56	OCT.	21	21	06	SEPT.	29	12	43	OCT.	6	05	06
NOV.	12	09	35	NOV.	20	13	36	OCT.	28	22	44	NOV.	4	14	07
DEC.	12	05	06	DEC.	20	03	44	NOV.	27	09	06	DEC.	4	02	32
								DEC.	26	19	55				

1929

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	11	00	29	JAN.	18	15	15	JAN.	25	07	09	JAN.	2	18	44
FEB.	9	17	56	FEB.	17	00	22	FEB.	23	18	59	FEB.	1	14	11
MAR.	11	08	37	MAR.	18	07	42	MAR.	25	07	47	MAR.	3	11	09
APR.	9	20	33	APR.	16	14	09	APR.	23	21	47	APR.	2	07	30
MAY	9	06	07	MAY	15	20	57	MAY	23	12	50	MAY	2	01	25
JUNE	7	13	57	JUNE	14	05	15	JUNE	22	04	15	MAY	31	16	13
JULY	6	20	47	JULY	13	16	06	JULY	21	19	21	JUNE	30	03	54
AUG.	5	03	40	AUG.	12	06	02	AUG.	20	09	42	JULY	29	12	56
SEPT.	3	11	48	SEPT.	10	22	58	SEPT.	18	23	16	AUG.	27	20	02
OCT.	2	22	20	OCT.	10	18	05	OCT.	18	12	06	SEPT.	26	02	07
NOV.	1	12	01	NOV.	9	14	10	NOV.	17	00	14	OCT.	25	08	22
DEC.	1	04	49	DEC.	9	09	42	DEC.	16	11	38	NOV.	23	16	05
DEC.	30	23	43									DEC.	23	02	27

1930

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	29	19	08	JAN.	8	03	11	JAN.	14	22	21	JAN.	21	16	07
FEB.	28	13	33	FEB.	6	17	27	FEB.	13	08	39	FEB.	20	08	45
MAR.	30	05	46	MAR.	8	04	01	MAR.	14	18	59	MAR.	22	03	13
APR.	28	19	09	APR.	6	11	25	APR.	13	05	49	APR.	20	22	09
MAY	28	05	37	MAY	5	16	53	MAY	12	17	30	MAY	20	16	22
JUNE	26	13	47	JUNE	3	21	56	JUNE	11	06	12	JUNE	19	09	01
JULY	25	20	42	JULY	3	04	03	JULY	10	20	02	JULY	18	23	30
AUG.	24	03	37	AUG.	1	12	27	AUG.	9	10	58	AUG.	17	11	31
SEPT.	22	11	42	AUG.	30	23	57	SEPT.	8	02	48	SEPT.	15	21	13
OCT.	21	21	48	SEPT.	29	14	59	OCT.	7	18	56	OCT.	15	05	12
NOV.	20	10	22	OCT.	29	09	22	NOV.	6	10	28	NOV.	13	12	27
DEC.	20	01	24	NOV.	28	06	17	DEC.	6	00	40	DEC.	12	20	07
				DEC.	28	03	59								

1931

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	18	18	36	JAN.	27	00	05	JAN.	4	13	15	JAN.	11	05	10
FEB.	17	13	10	FEB.	25	16	42	FEB.	3	00	26	FEB.	9	16	09
MAR.	19	07	51	MAR.	27	05	04	MAR.	4	10	36	MAR.	11	05	15
APR.	18	01	00	APR.	25	13	40	APR.	2	20	05	APR.	9	20	15
MAY	17	15	27	MAY	24	19	39	MAY	2	05	15	MAY	9	12	48
JUNE	16	03	02	JUNE	23	00	24	MAY	31	14	33	JUNE	8	06	18
JULY	15	12	20	JULY	22	05	16	JUNE	30	00	47	JULY	7	23	52
AUG.	13	20	27	AUG.	20	11	37	JULY	29	12	48	AUG.	6	16	28
SEPT.	12	04	26	SEPT.	18	20	37	AUG.	28	03	10	SEPT.	5	07	21
OCT.	11	13	07	OCT.	18	09	21	SEPT.	26	19	45	OCT.	4	20	15
NOV.	9	22	55	NOV.	17	02	14	OCT.	26	13	35	NOV.	3	07	17
DEC.	9	10	17	DEC.	16	22	43	NOV.	25	07	10	DEC.	2	16	50
								DEC.	24	23	24				

PHASES OF THE MOON

1932

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	7	23	29	JAN.	15	20	56	JAN.	23	13	45	JAN.	1	01	24
FEB.	6	14	46	FEB.	14	18	16	FEB.	22	02	08	JAN.	30	09	33
MAR.	7	07	44	MAR.	15	12	41	MAR.	22	12	37	FEB.	28	18	04
APR.	6	01	21	APR.	14	03	16	APR.	20	21	27	MAR.	29	03	44
MAY	5	18	11	MAY	13	14	02	MAY	20	05	09	APR.	27	15	14
JUNE	4	09	16	JUNE	11	21	40	JUNE	18	12	39	MAY	27	04	55
JULY	3	22	20	JULY	11	03	07	JULY	17	21	07	JUNE	25	20	36
AUG.	2	09	42	AUG.	9	07	41	AUG.	16	07	42	JULY	25	13	41
AUG.	31	19	54	SEPT.	7	12	49	SEPT.	14	21	06	AUG.	24	07	22
SEPT.	30	05	30	OCT.	6	20	05	OCT.	14	13	18	SEPT.	23	00	48
OCT.	29	14	57	NOV.	5	06	51	NOV.	13	07	28	OCT.	22	17	14
NOV.	28	00	43	DEC.	4	21	45	DEC.	13	02	21	NOV.	21	07	58
DEC.	27	11	23									DEC.	20	20	23

1933

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	25	23	20	JAN.	3	16	24	JAN.	11	20	37	JAN.	19	06	16
FEB.	24	12	44	FEB.	2	13	16	FEB.	10	13	01	FEB.	17	14	09
MAR.	26	03	21	MAR.	4	10	24	MAR.	12	02	46	MAR.	18	21	05
APR.	24	18	39	APR.	3	05	57	APR.	10	13	38	APR.	17	04	18
MAY	24	10	07	MAY	2	22	39	MAY	9	22	05	MAY	16	12	51
JUNE	23	01	22	JUNE	1	11	53	JUNE	8	05	05	JUNE	14	23	26
JULY	22	16	03	JUNE	30	21	41	JULY	7	11	51	JULY	14	12	24
AUG.	21	05	49	JULY	30	04	44	AUG.	5	19	32	AUG.	13	03	49
SEPT.	19	18	21	AUG.	28	10	14	SEPT.	4	05	05	SEPT.	11	21	31
OCT.	19	05	45	SEPT.	26	15	37	OCT.	3	17	08	OCT.	11	16	46
NOV.	17	16	24	OCT.	25	22	21	NOV.	2	08	00	NOV.	10	12	18
DEC.	17	02	53	NOV.	24	07	38	DEC.	2	01	31	DEC.	10	06	24
				DEC.	23	20	09	DEC.	31	20	54				

1934

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	15	13	38	JAN.	22	11	50	JAN.	30	16	32	JAN.	8	21	37
FEB.	14	00	43	FEB.	21	06	05	MAR.	1	10	26	FEB.	7	09	22
MAR.	15	12	09	MAR.	23	01	45	MAR.	31	01	14	MAR.	8	18	05
APR.	13	23	57	APR.	21	21	20	APR.	29	12	46	APR.	7	00	49
MAY	13	12	30	MAY	21	15	20	MAY	28	21	42	MAY	6	06	41
JUNE	12	02	11	JUNE	20	06	37	JUNE	27	05	08	JUNE	4	12	53
JULY	11	17	06	JULY	19	18	53	JULY	26	12	09	JULY	3	20	28
AUG.	10	08	46	AUG.	18	04	33	AUG.	24	19	37	AUG.	2	06	27
SEPT.	9	00	21	SEPT.	16	12	26	SEPT.	23	04	19	AUG.	31	19	41
OCT.	8	15	05	OCT.	15	19	29	OCT.	22	15	02	SEPT.	30	12	30
NOV.	7	04	44	NOV.	14	02	40	NOV.	21	04	27	OCT.	30	08	22
DEC.	6	17	25	DEC.	13	10	53	DEC.	20	20	54	NOV.	29	05	39
												DEC.	29	02	09

1935

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
JAN.	5	05	20	JAN.	11	20	55	JAN.	19	15	44	JAN.	27	19	59
FEB.	3	16	28	FEB.	10	09	25	FEB.	18	11	17	FEB.	26	10	14
MAR.	5	02	41	MAR.	12	00	31	MAR.	20	05	31	MAR.	27	20	50
APR.	3	12	11	APR.	10	17	43	APR.	18	21	10	APR.	26	04	21
MAY	2	21	37	MAY	10	11	54	MAY	18	09	57	MAY	25	09	44
JUNE	1	07	53	JUNE	9	05	50	JUNE	16	20	20	JUNE	23	14	22
JUNE	30	19	45	JULY	8	22	29	JULY	16	05	01	JULY	22	19	42
JULY	30	09	33	AUG.	7	13	23	AUG.	14	12	44	AUG.	21	03	18
AUG.	29	01	01	SEPT.	6	02	27	SEPT.	12	20	19	SEPT.	19	14	24
SEPT.	27	17	30	OCT.	5	13	40	OCT.	12	04	40	OCT.	19	05	37
OCT.	27	10	15	NOV.	3	23	12	NOV.	10	14	43	NOV.	18	00	36
NOV.	26	02	36	DEC.	3	07	28	DEC.	10	03	11	DEC.	17	21	57
DEC.	25	17	50												

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
1936															
				JAN.	1	15	15	JAN.	8	18	15	JAN.	16	19	42
JAN.	24	07	19	JAN.	30	23	36	FEB.	7	11	19	FEB.	15	15	46
FEB.	22	18	42	FEB.	29	09	28	MAR.	8	05	14	MAR.	16	08	35
MAR.	23	04	14	MAR.	29	21	23	APR.	6	22	46	APR.	14	21	22
APR.	21	12	33	APR.	28	11	16	MAY	6	15	01	MAY	14	06	12
MAY	20	20	35	MAY	28	02	46	JUNE	5	05	22	JUNE	12	12	05
JUNE	19	05	15	JUNE	26	19	23	JULY	4	17	35	JULY	11	16	28
JULY	18	15	19	JULY	26	12	36	AUG.	3	03	48	AUG.	9	21	00
AUG.	17	03	21	AUG.	25	05	50	SEPT.	1	12	38	SEPT.	8	03	14
SEPT.	15	17	42	SEPT.	23	22	13	SEPT.	30	21	02	OCT.	7	12	29
OCT.	15	10	20	OCT.	23	12	54	OCT.	30	05	59	NOV.	6	01	29
NOV.	14	04	43	NOV.	22	01	19	NOV.	28	16	12	DEC.	5	18	21
DEC.	13	23	26	DEC.	21	11	30	DEC.	28	04	01				
1937															
												JAN.	4	14	23
JAN.	12	16	47	JAN.	19	20	02	JAN.	26	17	16	FEB.	3	12	04
FEB.	11	07	35	FEB.	18	03	50	FEB.	25	07	43	MAR.	5	09	18
MAR.	12	19	32	MAR.	19	11	46	MAR.	26	23	12	APR.	4	03	53
APR.	11	05	10	APR.	17	20	34	APR.	25	15	24	MAY	3	18	37
MAY	10	13	18	MAY	17	06	50	MAY	25	07	37	JUNE	2	05	24
JUNE	8	20	44	JUNE	15	19	03	JUNE	23	23	00	JULY	1	13	03
JULY	8	04	13	JULY	15	09	36	JULY	23	12	46	JULY	30	18	47
AUG.	6	12	38	AUG.	14	02	28	AUG.	22	00	47	AUG.	28	23	55
SEPT.	4	22	53	SEPT.	12	20	57	SEPT.	20	11	33	SEPT.	27	05	44
OCT.	4	11	58	OCT.	12	15	47	OCT.	19	21	48	OCT.	26	13	26
NOV.	3	04	16	NOV.	11	09	34	NOV.	18	08	10	NOV.	25	00	04
DEC.	2	23	11	DEC.	11	01	13	DEC.	17	18	53	DEC.	24	14	20
1938															
JAN.	1	18	59	JAN.	9	14	13	JAN.	16	05	54	JAN.	23	08	09
JAN.	31	13	35	FEB.	8	00	33	FEB.	14	17	15	FEB.	22	04	25
MAR.	2	05	40	MAR.	9	08	36	MAR.	16	05	16	MAR.	24	01	06
MAR.	31	18	53	APR.	7	15	10	APR.	14	18	22	APR.	22	20	15
APR.	30	05	28	MAY	6	21	24	MAY	14	08	39	MAY	22	12	36
MAY	29	14	00	JUNE	5	04	32	JUNE	12	23	48	JUNE	21	01	52
JUNE	27	21	10	JULY	4	13	47	JULY	12	15	05	JULY	20	12	19
JULY	27	03	54	AUG.	3	02	00	AUG.	11	05	57	AUG.	18	20	31
AUG.	25	11	18	SEPT.	1	17	28	SEPT.	9	20	09	SEPT.	17	03	12
SEPT.	23	20	35	OCT.	1	11	45	OCT.	9	09	37	OCT.	16	09	25
OCT.	23	08	42	OCT.	31	07	45	NOV.	7	22	24	NOV.	14	16	20
NOV.	22	00	05	NOV.	30	04	00	DEC.	7	10	23	DEC.	14	01	16
DEC.	21	18	07	DEC.	29	22	53								
1939															
								JAN.	5	21	31	JAN.	12	13	11
JAN.	20	13	27	JAN.	28	15	00	FEB.	4	07	55	FEB.	11	04	12
FEB.	19	08	28	FEB.	27	03	26	MAR.	5	18	01	MAR.	12	21	37
MAR.	21	01	50	MAR.	28	12	16	APR.	4	04	19	APR.	11	16	12
APR.	19	16	35	APR.	26	18	25	MAY	3	15	16	MAY	11	10	41
MAY	19	04	25	MAY	25	23	20	JUNE	2	03	12	JUNE	10	04	07
JUNE	17	13	37	JUNE	24	04	36	JULY	1	16	16	JULY	9	19	49
JULY	16	21	03	JULY	23	11	34	JULY	31	06	37	AUG.	8	09	18
AUG.	15	03	53	AUG.	21	21	22	AUG.	29	22	09	SEPT.	6	20	25
SEPT.	13	11	23	SEPT.	20	10	35	SEPT.	28	14	27	OCT.	6	05	28
OCT.	12	20	30	OCT.	20	03	25	OCT.	28	06	42	NOV.	4	13	12
NOV.	11	07	55	NOV.	18	23	22	NOV.	26	21	55	DEC.	3	20	41
DEC.	10	21	46	DEC.	18	21	04	DEC.	26	11	29				

NEW MOON	D	H	M	FIRST QUARTER	D	H	M	FULL MOON	D	H	M	LAST QUARTER	D	H	M
1940															
												JAN.	2	04	57
JAN.	9	13	53	JAN.	17	18	21	JAN.	24	23	22	JAN.	31	14	47
FEB.	8	07	45	FEB.	16	12	56	FEB.	23	09	55	MAR.	1	02	35
MAR.	9	02	22	MAR.	17	03	26	MAR.	23	19	33	MAR.	30	16	20
APR.	7	20	19	APR.	15	13	46	APR.	22	04	37	APR.	29	07	49
MAY	7	12	07	MAY	14	20	51	MAY	21	13	33	MAY	29	00	40
JUNE	6	01	05	JUNE	13	02	00	JUNE	19	23	01	JUNE	27	18	13
JULY	5	11	28	JULY	12	06	36	JULY	19	09	56	JULY	27	11	30
AUG.	3	20	10	AUG.	10	12	01	AUG.	17	23	03	AUG.	26	03	33
SEPT.	2	04	15	SEPT.	8	19	32	SEPT.	16	14	41	SEPT.	24	17	47
OCT.	1	12	41	OCT.	8	06	19	OCT.	16	08	15	OCT.	24	06	04
OCT.	30	22	04	NOV.	6	21	09	NOV.	15	02	24	NOV.	22	16	37
NOV.	29	08	43	DEC.	6	16	01	DEC.	14	19	37	DEC.	22	01	46
DEC.	28	20	57												
1941															
				JAN.	5	13	40	JAN.	13	11	05	JAN.	20	10	02
JAN.	27	11	03	FEB.	4	11	43	FEB.	12	00	27	FEB.	18	18	08
FEB.	26	03	03	MAR.	6	07	43	MAR.	13	11	47	MAR.	20	02	51
MAR.	27	20	14	APR.	5	00	12	APR.	11	21	15	APR.	18	13	03
APR.	26	13	24	MAY	4	12	49	MAY	11	05	16	MAY	18	01	17
MAY	26	05	19	JUNE	2	21	56	JUNE	9	12	34	JUNE	16	15	46
JUNE	24	19	23	JULY	2	04	25	JULY	8	20	18	JULY	16	08	07
JULY	24	07	39	JULY	31	09	20	AUG.	7	05	39	AUG.	15	01	40
AUG.	22	18	34	AUG.	29	14	04	SEPT.	5	17	37	SEPT.	13	19	32
SEPT.	21	04	38	SEPT.	27	20	10	OCT.	5	08	32	OCT.	13	12	53
OCT.	20	14	20	OCT.	27	05	04	NOV.	4	02	00	NOV.	12	04	54
NOV.	19	00	04	NOV.	25	17	53	DEC.	3	20	51	DEC.	11	18	48
DEC.	18	10	19	DEC.	25	10	44								
1942															
								JAN.	2	15	42	JAN.	10	06	05
JAN.	16	21	33	JAN.	24	06	35	FEB.	1	09	13	FEB.	8	14	53
FEB.	15	10	03	FEB.	23	03	39	MAR.	3	00	21	MAR.	9	22	01
MAR.	16	23	50	MAR.	25	00	02	APR.	1	12	33	APR.	8	04	43
APR.	15	14	33	APR.	23	18	10	APR.	30	22	00	MAY	7	12	13
MAY	15	05	46	MAY	23	09	11	MAY	30	05	30	JUNE	5	21	27
JUNE	13	21	02	JUNE	21	20	44	JUNE	28	12	10	JULY	5	08	59
JULY	13	12	03	JULY	21	05	13	JULY	27	19	14	AUG.	3	23	05
AUG.	12	02	29	AUG.	19	11	31	AUG.	26	03	46	SEPT.	2	15	42
SEPT.	10	15	53	SEPT.	17	16	57	SEPT.	24	14	35	OCT.	2	10	27
OCT.	10	04	06	OCT.	16	22	58	OCT.	24	04	06	NOV.	1	06	19
NOV.	8	15	19	NOV.	15	06	57	NOV.	22	20	25	DEC.	1	01	37
DEC.	8	01	59	DEC.	14	17	47	DEC.	22	15	03	DEC.	30	18	38
1943															
JAN.	6	12	38	JAN.	13	07	49	JAN.	21	10	48	JAN.	29	08	13
FEB.	4	23	29	FEB.	12	00	40	FEB.	20	05	46	FEB.	27	18	23
MAR.	6	10	34	MAR.	13	19	30	MAR.	21	22	08	MAR.	29	01	53
APR.	4	21	54	APR.	12	15	04	APR.	20	11	11	APR.	27	07	51
MAY	4	09	44	MAY	12	09	53	MAY	19	21	13	MAY	26	13	34
JUNE	2	22	34	JUNE	11	02	35	JUNE	18	05	15	JUNE	24	20	08
JULY	2	12	44	JULY	10	16	29	JULY	17	12	22	JULY	24	04	39
AUG.	1	04	07	AUG.	9	03	37	AUG.	15	19	35	AUG.	22	16	05
AUG.	30	20	01	SEPT.	7	12	33	SEPT.	14	03	40	SEPT.	21	07	06
SEPT.	29	11	30	OCT.	6	20	10	OCT.	13	13	23	OCT.	21	01	42
OCT.	29	01	59	NOV.	5	03	22	NOV.	12	01	27	NOV.	19	22	43
NOV.	27	15	23	DEC.	4	11	04	DEC.	11	16	25	DEC.	19	20	04
DEC.	27	03	50												

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
1944							
		JAN.	2 20 04	JAN.	10 10 09	JAN.	18 15 32
JAN.	25 15 25	FEB.	1 07 08	FEB.	9 05 30	FEB.	17 07 42
FEB.	24 01 59	MAR.	1 20 41	MAR.	10 00 28	MAR.	17 20 05
MAR.	24 11 37	MAR.	31 12 35	APR.	8 17 22	APR.	16 04 59
APR.	22 20 44	APR.	30 06 07	MAY	8 07 29	MAY	15 11 12
MAY	22 06 13	MAY	30 00 07	JUNE	6 18 59	JUNE	13 15 57
JUNE	20 17 00	JUNE	28 17 28	JULY	6 04 27	JULY	12 20 39
JULY	20 05 42	JULY	28 09 24	AUG.	4 12 40	AUG.	11 02 52
AUG.	18 20 25	AUG.	26 23 39	SEPT.	2 20 22	SEPT.	9 12 03
SEPT.	17 12 38	SEPT.	25 12 07	OCT.	2 04 22	OCT.	9 01 12
OCT.	17 05 35	OCT.	24 22 49	OCT.	31 13 36	NOV.	7 18 28
NOV.	15 22 29	NOV.	23 07 54	NOV.	30 00 52	DEC.	7 14 57
DEC.	15 14 35	DEC.	22 15 55	DEC.	29 14 38		
1945							
						JAN.	6 12 48
JAN.	14 05 07	JAN.	20 23 49	JAN.	28 06 42	FEB.	5 09 56
FEB.	12 17 34	FEB.	19 08 38	FEB.	27 00 08	MAR.	7 04 31
MAR.	14 03 51	MAR.	20 19 12	MAR.	28 17 45	APR.	5 19 19
APR.	12 12 30	APR.	19 07 46	APR.	27 10 33	MAY	5 06 02
MAY	11 20 23	MAY	18 22 12	MAY	27 01 49	JUNE	3 13 15
JUNE	10 04 26	JUNE	17 14 06	JUNE	25 15 08	JULY	2 18 13
JULY	9 13 36	JULY	17 07 01	JULY	25 02 27	JULY	31 22 31
AUG.	8 00 32	AUG.	16 00 27	AUG.	23 12 03	AUG.	30 03 45
SEPT.	6 13 44	SEPT.	14 17 38	SEPT.	21 20 46	SEPT.	28 11 24
OCT.	6 05 22	OCT.	14 09 38	OCT.	21 05 32	OCT.	27 22 30
NOV.	4 23 10	NOV.	12 23 35	NOV.	19 15 13	NOV.	26 13 29
DEC.	4 18 07	DEC.	12 11 05	DEC.	19 02 17	DEC.	26 08 00
1946							
JAN.	3 12 30	JAN.	10 20 27	JAN.	17 14 47	JAN.	25 05 01
FEB.	2 04 44	FEB.	9 04 28	FEB.	16 04 29	FEB.	24 02 37
MAR.	3 18 02	MAR.	10 12 04	MAR.	17 19 12	MAR.	25 22 38
APR.	2 04 38	APR.	8 20 05	APR.	16 10 48	APR.	24 15 18
MAY	1 13 17	MAY	8 05 14	MAY	16 02 53	MAY	24 04 02
MAY	30 20 50	JUNE	6 16 07	JUNE	14 18 42	JUNE	22 13 12
JUNE	29 04 07	JULY	6 05 16	JULY	14 09 23	JULY	21 19 52
JULY	28 11 54	AUG.	4 20 56	AUG.	12 22 26	AUG.	20 01 18
AUG.	26 21 08	SEPT.	3 14 49	SEPT.	11 09 59	SEPT.	18 06 45
SEPT.	25 08 45	OCT.	3 09 54	OCT.	10 20 41	OCT.	17 13 29
OCT.	24 23 32	NOV.	2 04 41	NOV.	9 07 11	NOV.	15 22 35
NOV.	23 17 24	DEC.	1 21 48	DEC.	8 17 53	DEC.	15 10 57
DEC.	23 13 07	DEC.	31 12 24				
1947							
				JAN.	7 04 47	JAN.	14 02 57
JAN.	22 08 35	JAN.	30 00 08	FEB.	5 15 51	FEB.	12 21 59
FEB.	21 02 00	FEB.	28 09 12	MAR.	7 03 15	MAR.	14 18 28
MAR.	22 16 35	MAR.	29 16 16	APR.	5 15 29	APR.	13 14 24
APR.	21 04 20	APR.	27 22 18	MAY	5 04 54	MAY	13 08 08
MAY	20 13 44	MAY	27 04 36	JUNE	3 19 27	JUNE	11 22 58
JUNE	18 21 27	JUNE	25 12 25	JULY	3 10 39	JULY	11 10 55
JULY	18 04 15	JULY	24 22 55	AUG.	2 01 50	AUG.	9 20 22
AUG.	16 11 13	AUG.	23 12 41	AUG.	31 16 34	SEPT.	8 03 57
SEPT.	14 19 29	SEPT.	22 05 42	SEPT.	30 06 41	OCT.	7 10 30
OCT.	14 06 11	OCT.	22 01 11	OCT.	29 20 07	NOV.	5 17 04
NOV.	12 20 02	NOV.	20 21 45	NOV.	28 08 46	DEC.	5 00 55
DEC.	12 12 53	DEC.	20 17 44	DEC.	27 20 28		

NEW MOON				FIRST QUARTER				FULL MOON				LAST QUARTER			
	D	H	M		D	H	M		D	H	M		D	H	M
1948															
												JAN.	3	11	13
JAN.	11	07	45	JAN.	19	11	33	JAN.	26	07	12	FEB.	2	00	32
FEB.	10	03	02	FEB.	18	01	55	FEB.	24	17	16	MAR.	2	16	36
MAR.	10	21	15	MAR.	18	12	28	MAR.	25	03	11	APR.	1	10	25
APR.	9	13	16	APR.	16	19	42	APR.	23	13	29	MAY	1	04	49
MAY	9	02	31	MAY	16	00	55	MAY	23	00	37	MAY	30	22	44
JUNE	7	12	56	JUNE	14	05	40	JUNE	21	12	55	JUNE	29	15	24
JULY	6	21	10	JULY	13	11	30	JULY	21	02	32	JULY	29	06	11
AUG.	5	04	13	AUG.	11	19	40	AUG.	19	17	32	AUG.	27	18	47
SEPT.	3	11	22	SEPT.	10	07	06	SEPT.	18	09	43	SEPT.	26	05	07
OCT.	2	19	43	OCT.	9	22	11	OCT.	18	02	24	OCT.	25	13	42
NOV.	1	06	03	NOV.	8	16	47	NOV.	16	18	32	NOV.	23	21	22
NOV.	30	18	45	DEC.	8	13	58	DEC.	16	09	12	DEC.	23	05	13
DEC.	30	09	45												
1949															
				JAN.	7	11	52	JAN.	14	22	00	JAN.	21	14	08
JAN.	29	02	43	FEB.	6	08	05	FEB.	13	09	09	FEB.	20	00	43
FEB.	27	20	55	MAR.	8	00	42	MAR.	14	19	03	MAR.	21	13	11
MAR.	29	15	11	APR.	6	13	02	APR.	13	04	09	APR.	20	03	27
APR.	28	08	02	MAY	5	21	33	MAY	12	12	51	MAY	19	19	23
MAY	27	22	24	JUNE	4	03	28	JUNE	10	21	46	JUNE	18	12	30
JUNE	26	10	02	JULY	3	08	08	JULY	10	07	42	JULY	18	06	02
JULY	25	19	34	AUG.	1	12	58	AUG.	8	19	34	AUG.	16	22	59
AUG.	24	03	59	AUG.	30	19	17	SEPT.	7	10	00	SEPT.	15	14	29
SEPT.	22	12	21	SEPT.	29	04	19	OCT.	7	02	53	OCT.	15	04	07
OCT.	21	21	24	OCT.	28	17	05	NOV.	5	21	09	NOV.	13	15	48
NOV.	20	07	30	NOV.	27	10	02	DEC.	5	15	14	DEC.	13	01	49
DEC.	19	18	57	DEC.	27	06	32								
1950															
								JAN.	4	07	48	JAN.	11	10	32
JAN.	18	08	00	JAN.	26	04	40	FEB.	2	22	17	FEB.	9	18	33
FEB.	16	22	54	FEB.	25	01	53	MAR.	4	10	34	MAR.	11	02	39
MAR.	18	15	20	MAR.	26	20	10	APR.	2	20	50	APR.	9	11	43
APR.	17	08	26	APR.	25	10	40	MAY	2	05	20	MAY	8	22	32
MAY	17	00	55	MAY	24	21	29	MAY	31	12	43	JUNE	7	11	36
JUNE	15	15	53	JUNE	23	05	13	JUNE	29	19	58	JULY	7	02	54
JULY	15	05	06	JULY	22	10	51	JULY	29	04	18	AUG.	5	19	56
AUG.	13	16	49	AUG.	20	15	36	AUG.	27	14	52	SEPT.	4	13	54
SEPT.	12	03	30	SEPT.	18	20	54	SEPT.	26	04	22	OCT.	4	07	54
OCT.	11	13	34	OCT.	18	04	19	OCT.	25	20	47	NOV.	3	01	01
NOV.	9	23	26	NOV.	16	15	06	NOV.	24	15	14	DEC.	2	16	22
DEC.	9	09	29	DEC.	16	05	57	DEC.	24	10	23				
1951															
												JAN.	1	05	12
JAN.	7	20	11	JAN.	15	00	24	JAN.	23	04	47	JAN.	30	15	14
FEB.	6	07	55	FEB.	13	20	56	FEB.	21	21	13	FEB.	28	23	00
MAR.	7	20	51	MAR.	15	17	40	MAR.	23	10	50	MAR.	30	05	36
APR.	6	10	52	APR.	14	12	56	APR.	21	21	31	APR.	28	12	19
MAY	6	01	36	MAY	14	05	32	MAY	21	05	45	MAY	27	20	17
JUNE	4	16	41	JUNE	12	18	52	JUNE	19	12	37	JUNE	26	06	22
JULY	4	07	48	JULY	12	04	57	JULY	18	19	18	JULY	25	19	00
AUG.	2	22	39	AUG.	10	12	23	AUG.	17	03	00	AUG.	24	10	21
SEPT.	1	12	50	SEPT.	8	18	17	SEPT.	15	12	39	SEPT.	23	04	13
OCT.	1	01	57	OCT.	8	00	01	OCT.	15	00	52	OCT.	22	23	56
OCT.	30	13	55	NOV.	6	06	59	NOV.	13	15	52	NOV.	21	20	01
NOV.	29	01	00	DEC.	5	16	20	DEC.	13	09	31	DEC.	21	14	38
DEC.	28	11	44												

NEW MOON	FIRST QUARTER	FULL MOON	LAST QUARTER
M D H M	M D H M	M D H M	M D H M
1952			
	JAN. 4 04 42	JAN. 12 04 55	JAN. 20 06 10
JAN. 26 22 27	FEB. 2 20 02	FEB. 11 00 29	FEB. 18 18 01
FEB. 25 09 17	MAR. 3 13 44	MAR. 11 18 15	MAR. 19 02 40
MAR. 25 20 14	APR. 2 08 49	APR. 10 08 53	APR. 17 09 08
APR. 24 07 28	MAY 2 03 58	MAY 9 20 17	MAY 16 14 40
MAY 23 19 28	MAY 31 21 47	JUNE 8 05 08	JUNE 14 20 29
JUNE 22 08 46	JUNE 30 13 12	JULY 7 12 34	JULY 14 03 42
JULY 21 23 31	JULY 30 01 51	AUG. 5 19 41	AUG. 12 13 28
AUG. 20 15 21	AUG. 28 12 04	SEPT. 4 03 19	SEPT. 11 02 36
SEPT. 19 07 22	SEPT. 26 20 31	OCT. 3 12 16	OCT. 10 19 32
OCT. 18 22 42	OCT. 26 04 04	NOV. 1 23 10	NOV. 9 15 43
NOV. 17 12 56	NOV. 24 11 35	DEC. 1 12 42	DEC. 9 13 23
DEC. 17 02 02	DEC. 23 19 52	DEC. 31 05 06	
1953			
			JAN. 8 10 09
JAN. 15 14 09	JAN. 22 05 43	JAN. 29 23 44	FEB. 7 04 10
FEB. 14 01 11	FEB. 20 17 45	FEB. 28 18 59	MAR. 8 18 26
MAR. 15 11 06	MAR. 22 08 11	MAR. 30 12 55	APR. 7 04 59
APR. 13 20 10	APR. 21 00 42	APR. 29 04 21	MAY 6 12 21
MAY 13 05 06	MAY 20 18 21	MAY 28 17 03	JUNE 4 17 37
JUNE 11 14 55	JUNE 19 12 01	JUNE 27 03 30	JULY 3 22 04
JULY 11 02 28	JULY 19 04 49	JULY 26 12 22	AUG. 2 03 17
AUG. 9 16 10	AUG. 17 20 09	AUG. 24 20 21	AUG. 31 10 47
SEPT. 8 07 48	SEPT. 16 09 49	SEPT. 23 04 17	SEPT. 29 21 52
OCT. 8 00 42	OCT. 15 21 44	OCT. 22 12 56	OCT. 29 13 10
NOV. 6 17 58	NOV. 14 07 52	NOV. 20 23 13	NOV. 28 08 16
DEC. 6 10 48	DEC. 13 16 31	DEC. 20 11 44	DEC. 28 05 44
1954			
JAN. 5 02 22	JAN. 12 00 22	JAN. 19 02 37	JAN. 27 03 29
FEB. 3 15 56	FEB. 10 08 30	FEB. 17 19 18	FEB. 25 23 30
MAR. 5 03 12	MAR. 11 17 52	MAR. 19 12 43	MAR. 27 16 14
APR. 3 12 25	APR. 10 05 06	APR. 18 05 49	APR. 26 04 58
MAY 2 20 24	MAY 9 18 17	MAY 17 21 47	MAY 25 13 50
JUNE 1 04 03	JUNE 8 09 14	JUNE 16 12 06	JUNE 23 19 46
JUNE 30 12 27	JULY 8 01 34	JULY 16 00 30	JULY 23 00 14
JULY 29 22 20	AUG. 6 18 52	AUG. 14 11 04	AUG. 21 04 51
AUG. 28 10 21	SEPT. 5 12 29	SEPT. 12 20 20	SEPT. 19 11 12
SEPT. 27 00 50	OCT. 5 05 31	OCT. 12 05 10	OCT. 18 20 30
OCT. 26 17 47	NOV. 3 20 55	NOV. 10 14 30	NOV. 17 09 33
NOV. 25 12 31	DEC. 3 09 56	DEC. 10 00 58	DEC. 17 02 22
DEC. 25 07 34			
1955			
	JAN. 1 20 30	JAN. 8 12 45	JAN. 15 22 13
JAN. 24 01 07	JAN. 31 05 06	FEB. 7 01 43	FEB. 14 19 40
FEB. 22 15 55	MAR. 1 12 41	MAR. 8 15 42	MAR. 16 16 36
MAR. 24 03 43	MAR. 30 20 11	APR. 7 06 36	APR. 15 11 01
APR. 22 13 07	APR. 29 04 24	MAY 6 22 14	MAY 15 01 43
MAY 21 21 00	MAY 28 14 02	JUNE 5 14 09	JUNE 13 12 37
JUNE 20 04 12	JUNE 27 01 45	JULY 5 05 28	JULY 12 20 31
JULY 19 11 35	JULY 26 16 00	AUG. 3 19 31	AUG. 11 02 34
AUG. 17 19 59	AUG. 25 08 52	SEPT. 2 08 00	SEPT. 9 08 00
SEPT. 16 06 20	SEPT. 24 03 41	OCT. 1 19 18	OCT. 8 14 04
OCT. 15 19 33	OCT. 23 23 04	OCT. 31 06 04	NOV. 6 21 57
NOV. 14 12 02	NOV. 22 17 29	NOV. 29 16 51	DEC. 6 08 36
DEC. 14 07 07	DEC. 22 09 40	DEC. 29 03 45	

1956

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
						JAN.	4 22 42
JAN.	13 03 02	JAN.	20 22 59	JAN.	27 14 41	FEB.	3 16 08
FEB.	11 21 39	FEB.	19 09 21	FEB.	26 01 42	MAR.	4 11 54
MAR.	12 13 37	MAR.	19 17 14	MAR.	26 13 12	APR.	3 08 07
APR.	11 02 39	APR.	17 23 29	APR.	25 01 41	MAY	3 02 57
MAY	10 13 05	MAY	17 05 16	MAY	24 15 26	JUNE	1 19 14
JUNE	8 21 30	JUNE	15 11 57	JUNE	23 06 14	JULY	1 08 41
JULY	8 04 38	JULY	14 20 48	JULY	22 21 30	JULY	30 19 32
AUG.	6 11 26	AUG.	13 08 46	AUG.	21 12 38	AUG.	29 04 13
SEPT.	4 18 57	SEPT.	12 00 13	SEPT.	20 03 20	SEPT.	27 11 26
OCT.	4 04 25	OCT.	11 18 44	OCT.	19 17 25	OCT.	26 18 03
NOV.	2 16 44	NOV.	10 15 09	NOV.	18 06 45	NOV.	25 01 13
DEC.	2 08 12	DEC.	10 11 52	DEC.	17 19 07	DEC.	24 10 10

1957

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
JAN.	1 02 14	JAN.	9 07 07	JAN.	16 06 22	JAN.	22 21 49
JAN.	30 21 25	FEB.	7 23 24	FEB.	14 16 38	FEB.	21 12 19
MAR.	1 16 13	MAR.	9 11 51	MAR.	16 02 23	MAR.	23 05 05
MAR.	31 09 20	APR.	7 20 33	APR.	14 12 10	APR.	21 23 01
APR.	29 23 54	MAY	7 02 30	MAY	13 22 35	MAY	21 17 04
MAY	29 11 39	JUNE	5 07 10	JUNE	12 10 03	JUNE	20 10 23
JUNE	27 20 54	JULY	4 12 10	JULY	11 22 50	JULY	20 02 19
JULY	27 04 29	AUG.	2 18 55	AUG.	10 13 08	AUG.	18 16 17
AUG.	25 11 33	SEPT.	1 04 36	SEPT.	9 04 55	SEPT.	17 04 02
SEPT.	23 19 20	SEPT.	30 17 50	OCT.	8 21 43	OCT.	16 13 45
OCT.	23 04 44	OCT.	30 10 48	NOV.	7 14 33	NOV.	14 22 00
NOV.	21 16 20	NOV.	29 06 58	DEC.	7 06 16	DEC.	14 05 46
DEC.	21 06 12	DEC.	29 04 52				

1958

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
				JAN.	5 20 10	JAN.	12 14 02
JAN.	19 22 08	JAN.	28 02 16	FEB.	4 08 06	FEB.	10 23 35
FEB.	18 15 38	FEB.	26 20 52	MAR.	5 18 29	MAR.	12 10 49
MAR.	20 09 50	MAR.	28 11 19	APR.	4 03 45	APR.	10 23 50
APR.	19 03 24	APR.	26 21 36	MAY	3 12 23	MAY	10 14 37
MAY	18 19 01	MAY	26 04 38	JUNE	1 20 55	JUNE	9 06 59
JUNE	17 08 00	JUNE	24 09 46	JULY	1 06 05	JULY	9 00 21
JULY	16 18 34	JULY	23 14 20	JULY	30 16 48	AUG.	7 17 50
AUG.	15 03 34	AUG.	21 19 45	AUG.	29 05 54	SEPT.	6 10 24
SEPT.	13 12 02	SEPT.	20 03 19	SEPT.	27 21 44	OCT.	6 01 21
OCT.	12 20 53	OCT.	19 14 07	OCT.	27 15 41	NOV.	4 14 20
NOV.	11 06 34	NOV.	18 05 00	NOV.	26 10 17	DEC.	4 01 25
DEC.	10 17 24	DEC.	17 23 52	DEC.	26 03 55		

1959

NEW MOON	D H M	FIRST QUARTER	D H M	FULL MOON	D H M	LAST QUARTER	D H M
						JAN.	2 10 51
JAN.	9 05 34	JAN.	16 21 27	JAN.	24 19 33	JAN.	31 19 07
FEB.	7 19 23	FEB.	15 19 20	FEB.	23 08 54	MAR.	2 02 54
MAR.	9 10 51	MAR.	17 15 11	MAR.	24 20 03	MAR.	31 11 07
APR.	8 03 29	APR.	16 07 33	APR.	23 05 14	APR.	29 20 39
MAY	7 20 11	MAY	15 20 09	MAY	22 12 56	MAY	29 08 14
JUNE	6 11 55	JUNE	14 05 24	JUNE	20 20 01	JUNE	27 22 12
JULY	6 02 01	JULY	13 12 01	JULY	20 03 34	JULY	27 14 22
AUG.	4 14 35	AUG.	11 17 11	AUG.	18 12 51	AUG.	26 08 04
SEPT.	3 01 56	SEPT.	9 22 07	SEPT.	17 00 52	SEPT.	25 02 23
OCT.	2 12 31	OCT.	9 04 23	OCT.	16 15 59	OCT.	24 20 22
OCT.	31 22 41	NOV.	7 13 24	NOV.	15 09 42	NOV.	23 13 03
NOV.	30 08 47	DEC.	7 02 12	DEC.	15 04 50	DEC.	23 03 29
DEC.	29 19 10						